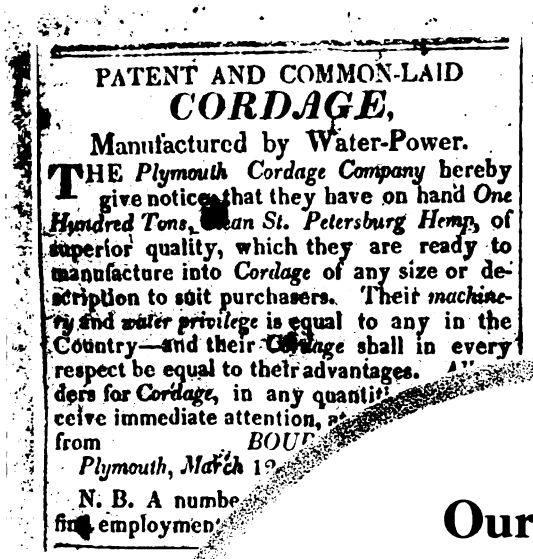
Plymouth Policy



PATENT AND COMMON-LAID
CORDAGE,
Manufactured by Water-Power.

THE *Plymouth Cordage Company* hereby give notice that they have on hand *One Hundred Tons, Clean St. Petersburg Hemp,* of superior quality, which they are ready to manufacture into *Cordage* of any size or description to suit purchasers. Their *machinery and water privilege* is equal to any in the Country—and their *Cordage* shall in every respect be equal to their advantages. A[illegible] ders for *Cordage,* in any quanti[illegible] ceive immediate attention, a[illegible] from BOU[illegible]

Plymouth, March 1[illegible]

N. B. A numbe[illegible] fin[illegible] employmen[illegible]

Our First Ad

shows the stress laid, even in the earliest year of the business, upon the policy which governs the manufacture of Plymouth Cordage—"highest quality only."

It is well to know that we have always had such a policy. It makes you feel certain that the same policy will be continued.

In the light of our growth this course is obviously the profitable one for us to follow. And the greater service which it enables us to render to those who sell or use our goods likewise makes it the natural one.

At no time have we seen any reason for changing this policy. Instead, we receive proof every day that "highest quality" is the only quality worth sticking to in cordage—whether you make it, sell it or use it.

PLYMOUTH CORDAGE CO.
NORTH PLYMOUTH, MASS. WELLAND, ONT.

PLYMOUTH TRADE MARK 1824

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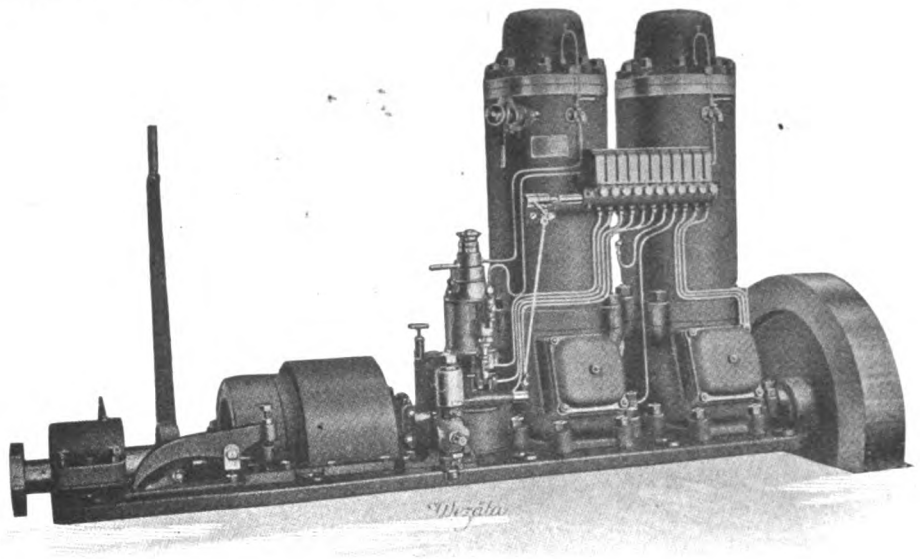
SKANDIA SEMI-DIESEL CRUDE OIL ENGINE

For CUTTERS, SCHOONERS, FISHING BOATS, TUGS, Etc.
Especially Suitable as AUXILIARY ENGINES in Sailing Vessels

Economical
Reliable

Low Fuel
Consumption



Standard Sizes,
5-500 B. H. P.

250,000 B. H. P.
of SKANDIA
Engines Already in
Use all Over
the World

ALASKA AND NORTHWESTERN REPRESENTATIVES

SKANDIA ENGINEERING COMPANY *208 Grand Trunk Dock* **Seattle**

J. H. HANSEN & CO., Pacific Coast Agents, SAN FRANCISCO

The more you know about marine motors, the more enthusiastic you will be about Wisconsins.

From the smallest four-cylinder 3¼x5 to the eight-cylinder 5¾x7, every Wisconsin Motor does its work smoothly and quietly, without vibration—runs consistently, without attention, under all conditions.

Write for catalog of different sizes and models with photographs and specifications.

WISCONSIN MOTOR MANUFACTURING CO.

New York Branch, 50 Church St.
T. M. FENNER, Factory Representative

Station A, Dept. 305.

MILWAUKEE, WIS.

Pacific Coast:
EARL P. COOPER, 333 W. Pico St.,
Los Angeles, Cal.

Mention Motorship.

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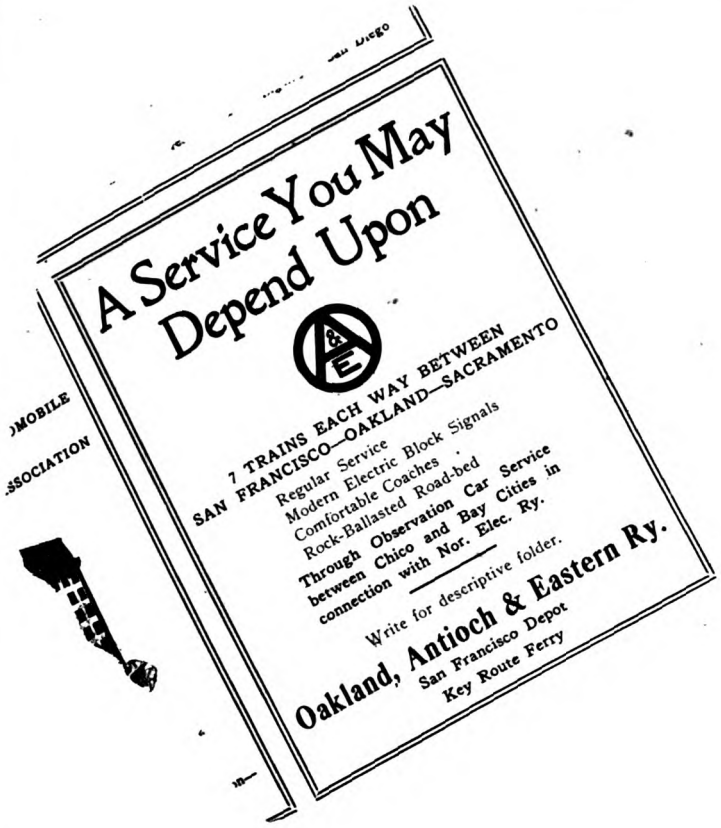
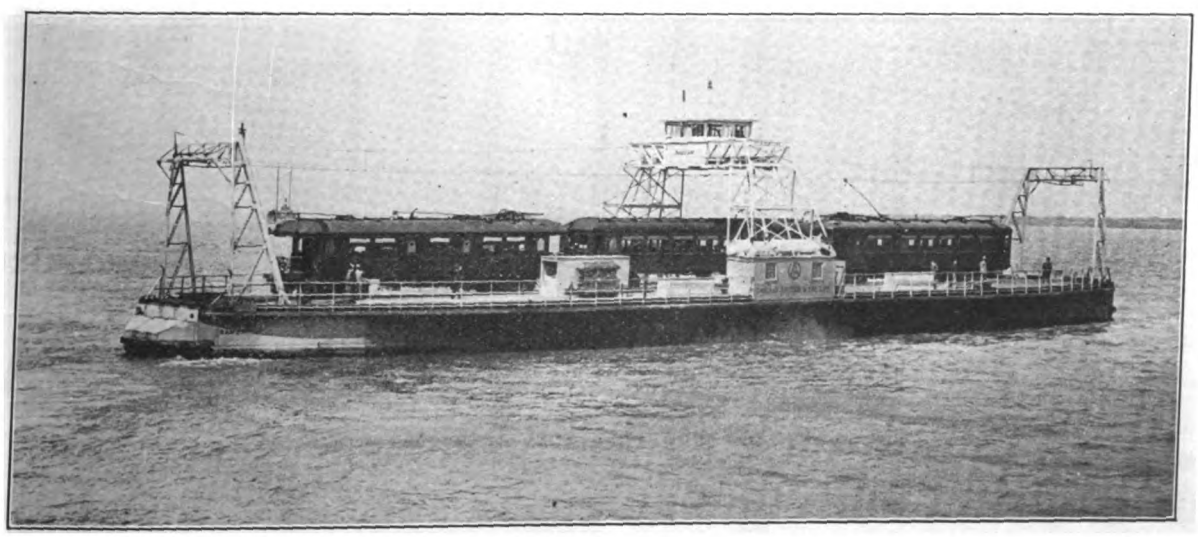
UNION
28 YEARS OF
ENGINEERING SUCCESS



This entire railway system relies upon the DEPENDABLE SERVICE of a single UNION engine of 600 H. P. installed in the car ferry "RAMON."

"RAMON" has been "on time" with EVERY TRAIN since going into service over a year ago. Not a single delay or "lay-up" for repairs. She runs night and day—every day.

Such reliability as this means low cost of up-keep.



UNION GAS ENGINE CO.

Mention Motorship.

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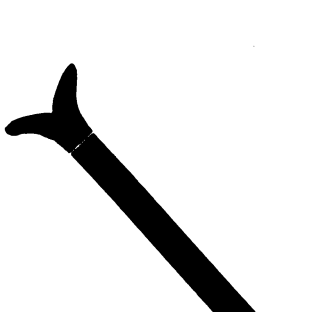
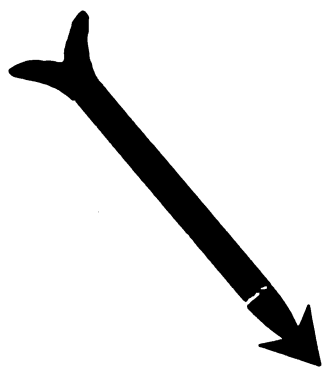
Here are a few of the items included in every order we fill—



EXPERIENCE
RELIABILITY
PROMPTNESS
SATISFACTION



Our short name for them is

SERVICE

Do you know anywhere else you can get all these things combined with your choice of the world's finest in every line of merchandise used in the fisheries?

PACIFIC NET & TWINE CO.

PIER 8 **SEATTLE, U. S. A.**

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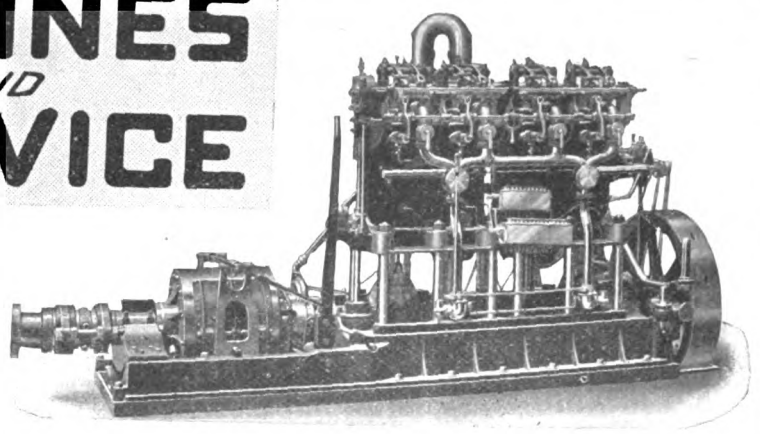
The ENGINES AND The SERVICE



These well-known Standard agencies now handle both

Standard Distillate Engines

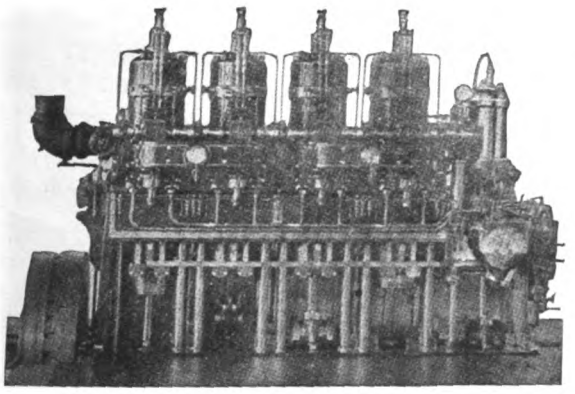
and

Southwark-Harris Valveless Oil Engines

(Diesel Principle)

Assuring patrons REAL SERVICE in all the principal ports of the Pacific

STANDARD owners, to avail themselves of **Factory Service,** should "Buy Standard Parts from Standard Agents."



STANDARD GAS ENGINE CO.
SAN FRANCISCO.

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Pacific Fisherman

DEVOTED EXCLUSIVELY TO THE COMMERCIAL FISHERIES OF THE PACIFIC COAST

A PUBLICATION of fifteen years' standing, the text book of cannerymen and fishermen, recognized as an authority in its field by the Associated Press, the United States and foreign governments, the railroad and steamship corporations, as well as by everyone in the business. Probably no trade journal in the United States has so complete a circulation in the field that it represents.

Pacific Fisherman is the best advertising medium for those who wish to secure a share of the Pacific Coast fisheries business, an industry which spends $50,000,000 annually. Covers the field from the Mexican line to Arctic Alaska once a month. Its advertising columns have always been clean and dependable, and represent as strong an influence in the industry as its reading matter.

RATE CARDS FURNISHED UPON APPLICATION

Subscription, $2.00 per year
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Pacific Fisherman Year Book

AN annual review of the fisheries of the Pacific Coast for the year 1915.

A complete and reliable handbook on the fisheries of the West Coast, embracing the functions of a pictorial history, volume of reference and statistical gazetteer.

Presents in a convenient and durable form all obtainable information concerning the many branches of the fish handling business on this coast. Figures are collated so as to show growth of the industry, its increasing importance and the extension of its area.

Statistical and detailed information on.

Canned Salmon
Mild Cured Salmon
Frozen and Fresh Salmon
Salted Salmon
Codfish
Halibut
Herring
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Fish Oil and Fertilizer
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PACIFIC FISHERMAN

L. C. SMITH BUILDING **SEATTLE, U. S. A.**

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The Imperial

Has Always Been A WINNER Among Heavy-Duty Engines

It has proven a prize winner, not only in expositions and exhibits, but also in the field where its merits are put to the supreme test. In actual service the Imperial has been a winner for years.

The Imperial

For 1916 IS More of A WINNER Than Ever Before

Not content with a reputation for already having the best, the Imperial manufacturers are going to make their product even better. Read carefully about the 1915 Imperial improvements.

AUXILIARY VACUUM EXHAUST OR RELIEF—A new feature of the Imperial that operates to relieve the vacuum in cylinder on the firing stroke of the engine, preventing suction of water into motor from exhaust piping. Prevents faulty lubrication and damage of salt water to cylinders.

TIMING—The timing features of the engines have also been improved. The rollers and cams are this year specially hardened, as are also the nuts for valve stems and tappets of large thread, thereby prolonging the close adjustment and timing which is now necessary for highest efficiency.

VALVE SPRINGS—Are of a special hardened steel, oil tempered and of a low pitch, and the coils being exactly parallel, make an easy seating of the valve and insure long life.

FIXED MIXTURE APPLIANCE—As the mixture of gas improves the velocity of air through the carburetor, it follows that if same speed is maintained when engine is running slow as fast that a constant economic fuel consumption will result. This is effected in the 1916 Imperial by changing the opening of the inlet valve, the valve being opened later when it is desired to run the engine slower—as it follows that the vacuum in the cylinder accentuates the draft through the carburetor. In other words, the speed of the air through the carburetor is maintained at the same velocity of travel whether the engine runs slow or fast.

PLUNGER PUMP AND WATER JACKET—On all large powered engines, the plunger pump can be thrown in or out of action at will by a lever. Also the water jacket can now be cleared of sand, as removable plates are placed on each side of the cylinder for this purpose.

(These are just a few features added to the Imperial Engine's Already Great Mechanical Superiority.)

Imperial Gas Engine Co.

60 Clementina Street, San Francisco, Calif.

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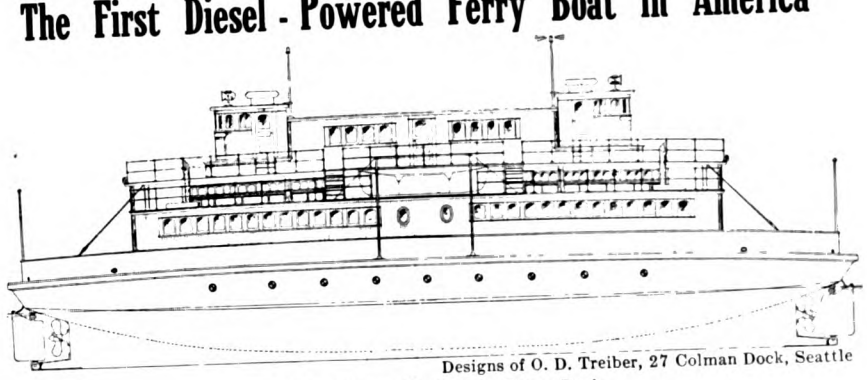
The King County Commissioners unamimously agreed that the

ATLAS TRUE DIESEL

was the best engine of all that were under consideration and accordingly placed orders for a six-cylinder 250 horse power Atlas True Diesel Engine for

The First Diesel-Powered Ferry Boat in America



Designs of O. D. Treiber, 27 Colman Dock, Seattle

King County (Wn.) New Ferry Boat

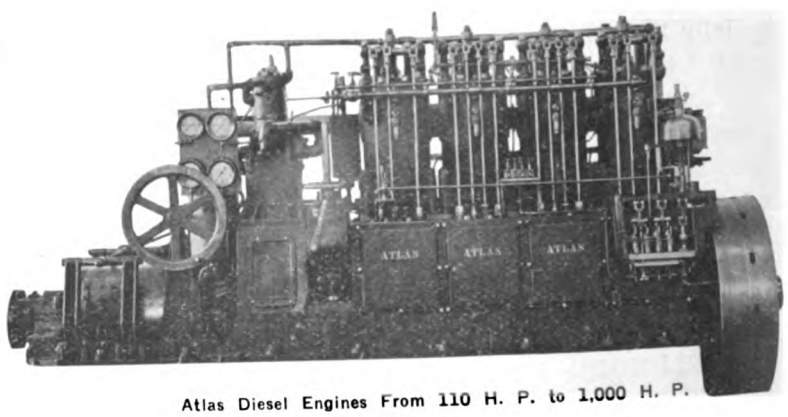
This is not the first time the manufacturers of the Atlas gas and Diesel principle engines have pointed the way by modernizing marine engine construction—It is generally conceded that the largest and most successful halibut boats plying the North Pacific and Behring Sea waters are equipped with

Atlas Gas Engines

The first seven high halibut boats, season 1915, were all Atlas Engined—

A still greater efficiency will follow the installation of

ATLAS DIESEL ENGINES



Atlas Diesel Engines From 110 H. P. to 1,000 H. P.

Atlas Gas Engine Company

Main Office and Factory:
OAKLAND, CALIFORNIA

REPRESENTATIVES:

SEATTLE, WASH.,—O. E. Nilsen, Northwest Sales Mgr., Office and Salesroom: 901 Western Ave., cor. Marion St.

Nome, Alaska—John J. Sesnon Co.
Ketchikan, Alaska—Ketchikan Iron Works.
Aberdeen, Wash.—Carl T. Nelson.
Astoria, Ore.—Atlas Gas Engine Agency, 509 Bond St.
Portland, Ore.—Bell Oil Co., 14 N. Front St.
Sacramento, Cal.—Nunes Bros., foot R St.
Stockton, Cal.—Stockton Iron Works.
Sydney, Australia—Atlas Oil Engine Co. 15 Market St.
New Orleans, La.—J. G. Davis, 1324 Music St.
Mexico City—Wm. Young & Co., La Calle de Gante No. 11.
Papeete, Tahiti—Emile Levy.
Honolulu, T. H.—Cotton, Neill & Co

Mention Motorship.

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Over 40 years experience in the refining of petroleum—plant equipment and refining methods that are unequalled—supervised by experts that have spent their lives in the manufacture of good lubricants—

Why shouldn't Zerolene be the oil best suited to your motor?

ZEROLENE

The Standard Oil for Motor Boats

is scientifically refined from selected California crude—*asphalt-base.*

Engineers of the Packard and other automobile companies, Exposition Juries, a noted French chemist, U.S. government experts, — all have recently declared that, for motor-cylinder lubrication, an oil made from western asphalt-base crude can be made not only equal but superior to paraffine-base oils.

And Zerolene is not only made from the right crude, but made right — the best oil the Standard Oil Company can make.

When you empty the crank-case refill with Zerolene.

Zerolene is for sale by dealers everywhere, or at all of our many waterfront stations.

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Port Townsend
Port Orchard
Potlatch
Poulsbo
Richardson
Seattle
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South Bend
Tacoma
* Vancouver

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Sausalito
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Boats are supplied direct from our own docks except at points marked *. At these places we deliver promptly at any convenient place along the waterfront.

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FUEL OIL ENGINES

Marine and Stationary
3 to 600 B.H.P.

HENRY LUND & CO.
AGENTS

Grand Trunk Dock
Seattle

Marine Bldg.,
San Francisco

Even in units of the largest size the M. & W. engine requires the attention of only one man, and that only a portion of the time.

After getting under way he need never go near the engine until he gets a signal from the bridge, except to see that the lubricator reservoir is filled and the fuel tank supplied.

If you are operating a steam plant you are paying the wages of one or two stokers, an engineer and perhaps an oiler and coal passer. For a plant of precisely the same power output you can reduce the payroll to the minimum.

The many valuable advantages of M. & W. engine over any other type of prime mover are intensely described in our Bulletin M-21 which will be sent upon request. Ask us to send it, and at the same time tell us how much power you need and the service for which you need it—our engineers will gladly co-operate with you in selecting precisely the type and size of M. & W. outfit that will solve your power problem.

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128 MOTT STREET, NEW YORK

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NLSECO DIESEL

ENGINES

Premier American Type

Built at GROTON, CONN.

—BY—

New London Ship & Engine Co.

Pacific Coast Office:
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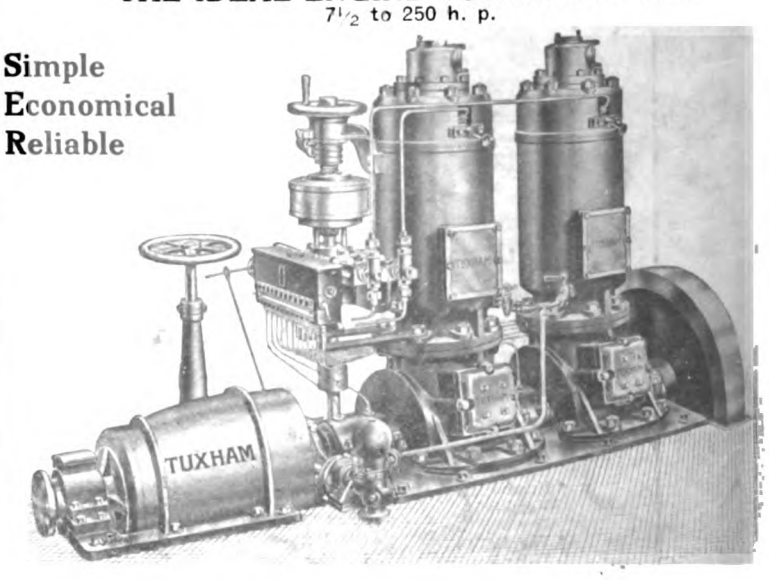
THE IDEAL ENGINE FOR FISH BOATS

7½ to 250 h. p.

Simple
Economical
Reliable



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CONSUMES 1 13 GALLON CALIFORNIA FUEL OIL PER HORSE POWER HOUR.

Owing to our superior manufacturing facilities and the fact that the Tuxham Company has been successfully building semi-diesel engines for more than ten years. we are in a position to ship engines promptly from our Copenhagen factory on filing cable orders. Our time of delivery therefore compares favorably with that of any American manufacturer.

When you buy a Tuxham you get an Engine, not an Experiment

FOR PARTICULARS AND PRICES ADDRESS:

E. PETERSEN and E. C. SCHMIEGELOW

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AUGUST MIETZ MACHINE WORKS

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(71-14)

The First **DIESEL** in an American

SUBMARINE

PASSENGER VESSEL

YACHT

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FISHING VESSEL

CANNERY TENDER

TUG BOAT

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SEATTLE, U. S. A.

TUXHAM

THE IDEAL ENGINE FOR FISH BOATS

7½ to 250 h. p.

Simple
Economical
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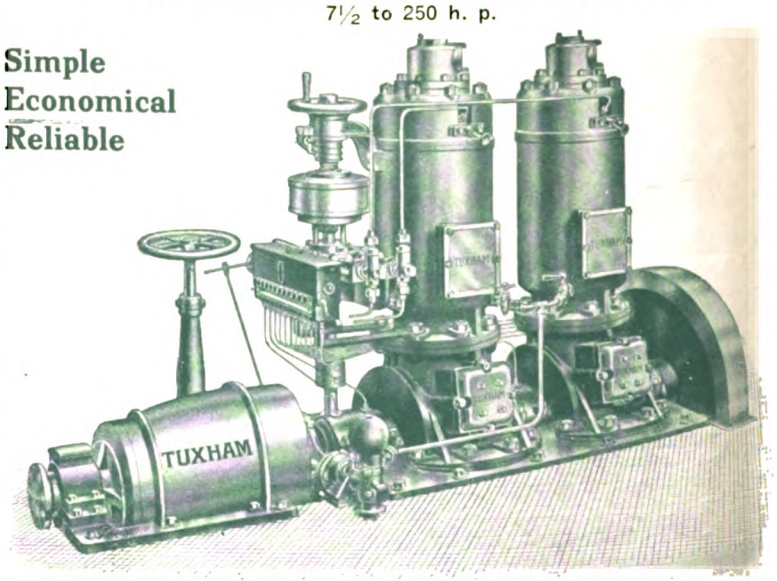

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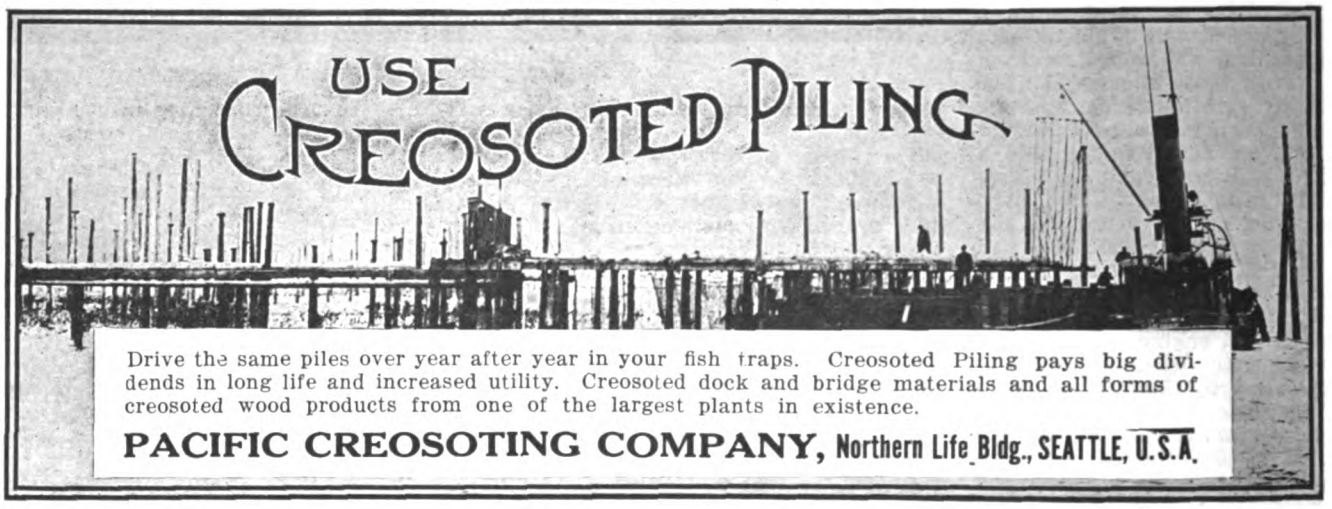

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PACIFIC CREOSOTING COMPANY, Northern Life Bldg., SEATTLE, U.S.A.

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EXCELSIOR BRAND

OILED CLOTHING

SAWYER'S CRACK PROOF TRADE MARK EXCELSIOR

Made Especially for FISHERMEN—Strong, Flexible, Waterproof

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SHIPMATE RANGES

10 Sizes 14 Numbers

Don't lose time on the range question.

The Shipmate is what you want: its slight extra cost is more than repaid in saving of worry and trouble.

They are built to do their work well under rough usage and hard knocks; and thousands of satisfied users testify to their efficiency and durability.

Made by

THE STAMFORD FOUNDRY COMPANY

Established 1830 Stamford, Conn.

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PACIFIC NET & TWINE COMPANY, Pier 8, Seattle, Washington.
THE BEEBE COMPANY, 182-184-186 Morrison St., Portland, Oregon.
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Mention Motorship.

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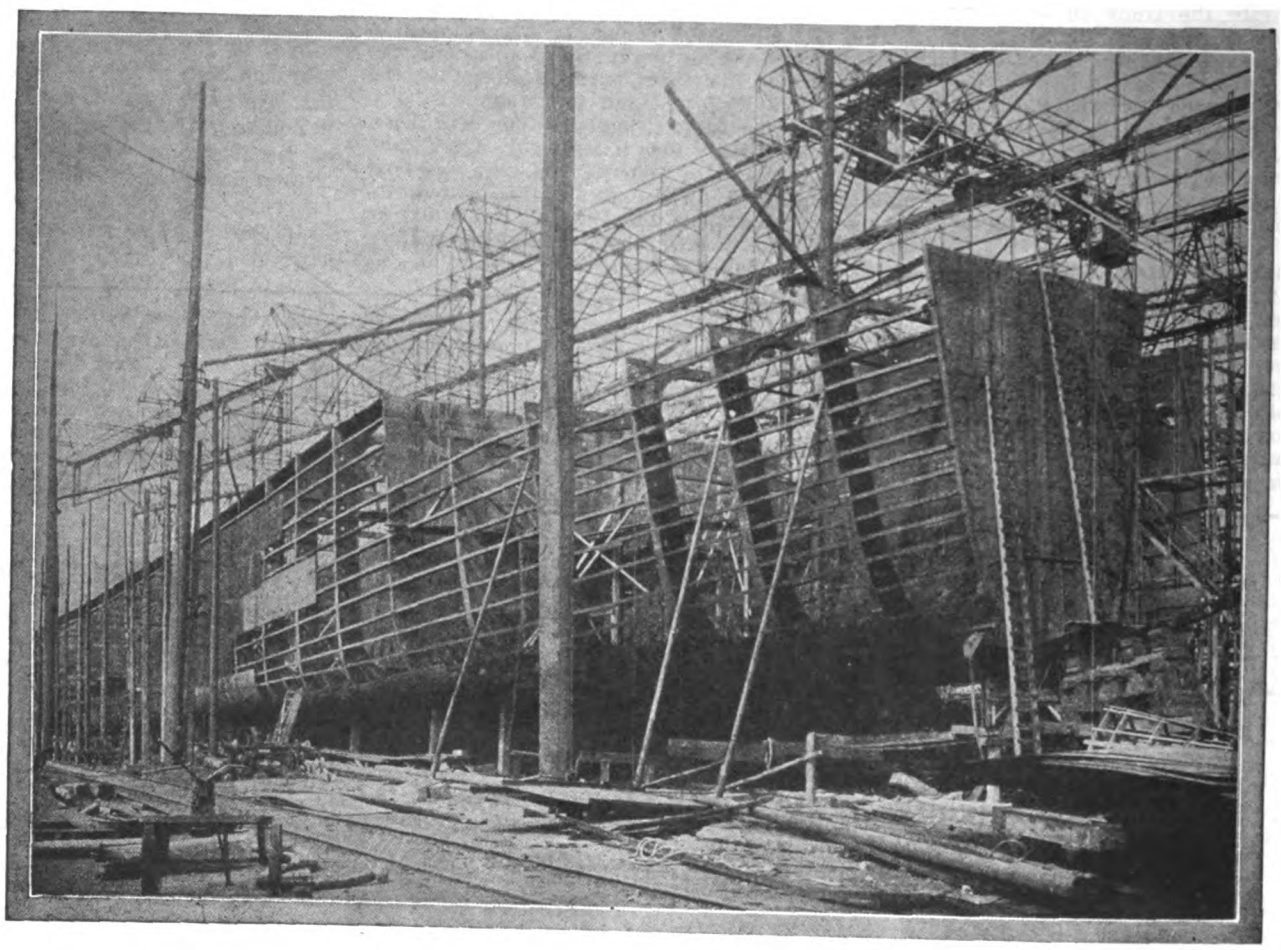
"ISHERWOOD SYSTEM OF SHIP CONSTRUCTION"

Suitable for All Types of Vessels

Specially Advantageous for Oil Steamers



Increased Strength. Increased Capacity for Bale Goods. Increased D. W. Carrying Capacity. Improved Ventilation. Reduced Cost of Maintenance. Reduced Vibration. 500 vessels representing about 3,650,000 tons dead weight carrying capacity. 205 Bulk Oil Carriers representing about 1,886,000 tons dead weight carrying capacity.

FOR PARTICULARS APPLY TO

Telephone—
1064 Avenue

J. W. ISHERWOOD

Telegraphic Address—
"Ishercon"

4, LLOYD'S AVENUE, LONDON, E. C.
or to S. C. CHAMBERS & CO., 3 KING STREET, LIVERPOOL

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PROOF OF THE HIGH STANDING OF

Pacific Fisherman

among people connected with the fishing industry in all parts of the world is shown by letters from subscribers reproduced below. Advertisers remain in this journal year after year because they find its unique circulation gives remarkable results.

ARoroy, SORSOGON, PHILIPPINE ISLANDS.

March 25, 1916.

Pacific Fisherman,
Seattle, Wash.

Gentlemen:

Enclosed please find $2.00 for subscription for one year to the Pacific Fisherman.

I will be obliged if you can furnish me with some data as to net fishing and as to the possibility of fishing in deep water where the outfit can be handled by two or three men—also address of one or two companies that furnish nets, or better yet, ask them to send catalogues.

The way fishing is handled here, outside of trap fishing which consists of corrals made of bamboo, is by net fishing. This takes 20 to 30 men to handle net. The net and boat is furnished the men who usually receive one-half the catch as payment, and this manner of fishing is done in not over 12 to 15 feet of water.

I would like to find out if a net can be secured for deep fishing in the ocean, as I often see schools of fish in crossing the channel, which is about 20 miles wide.

I own a 24-foot V-bottom launch with a 6-ft. 6-in. beam, and a small row boat, and would like to know if by securing a proper net if I would be equipped to fish in deep water.

Any and all data will be gladly received and appreciated. As I know I can arrange to fish in deep water and I can make a good thing out of it.

J. J. MURPHY.

SAN FRANCISCO, CAL.

April 27, 1916.

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Seattle, Wash.

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Yours very truly,

BERGER & CARTER CO.

HAKODATE, JAPAN.

March 15th, 1916.

The New London Ship & Engine Coy.,
No. 68 Marion Street,
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Dear Sirs:

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KANSAS CITY, MO.

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MELBOURNE, AUSTRALIA.

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H. HECHT & CO.

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Seattle, Wash.

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Browns Limited,
No. 1 Burg Street,
Cape Town, South Africa.

Will you kindly send us receipted bills in duplicate?

The Pacific Fisherman is certainly a great publication.

G. W. HUME COMPANY,
Packers of Fruit and Salmon.

VANCOUVER, B. C.

April 8th, 1916.

Miller Freeman, Esq.,
Editor "Pacific Fisherman,"
Seattle, Wash.

Dear Sir:

Under another cover we are sending you a list of our correspondents to whom you may send copies of Pacific Fisherman. Many of them, however, are subscribers to your paper, as the writer saw it in different parts of the world he has visited.

I remain,

W. H. BARKER,
President British Columbia Packers Assn.

Subscription, $2 per year; foreign, $2.50. Combined with Motorship, $3; foreign, $4 per year.

PACIFIC FISHERMAN

1321 SMITH BUILDING

SEATTLE, WASH.

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40 Medals and Prizes

Have been awarded to the peer of all marine motors, the

AVANCE
Crude-Oil-Motors

Europe not only testifies to the wonderful results obtained through the use of this high grade motor, combining, as it does, greatest efficiency with utmost economy, but American users are just as enthusiastic. No matter whether your needs require a motor for commercial or pleasure purposes, the one that will best serve you is the "Avance."

Write to-day for first-hand information.

J. S. JOHNSON
Agent
Prince Rupert, B. C.

Who ever heard of making a boot like an auto tire?

Nobody—until we introduced

Goodrich "HIPRESS"
Brown Rubber Footwear
"With the Red-Line 'round the Top"

The wonderful new footwear MOLDED INTO ONE SOLID PIECE! MORE WEAR and MORE COMFORT for the fisherman.

We have developed what is acknowledged the toughest wearing tire tread made. It must stand tremendous strain—think of the thonsands of miles it must run under car weight and road wear. But, we realized that rubber boots and shoes had not kept pace with the advance in tire building. Those on the market were faulty—built up in layers stuck together by hand. They leaked after brief service—wore out in short order. So—we conceived the idea of making a boot LIKE A TIRE. WE TAKE THIS SAME GRISTLY GOODRICH TIRE RUBBER AND MAKE IT INTO A BOOT—MOLDED INTO ONE SOLID PIECE! That's "HIPRESS"—the biggest advancement in rubber footwear in 50 years.

This is the brown short boot

Cut down your footwear bills

"HIPRESS" will outwear any rubber or leather boot or shoe on the market. Hundreds of thousands of fishermen and boot wearers in the United States, Alaska and Canada will use positively nothing except this RED-LINE footwear. Our sales are increasing from 100% to 500% yearly, from the smallest to the best selling styles. Beware of imitations—the genuine always has the *Red-Line 'round the Top.*

ASK YOUR DEALER

The B. F. Goodrich Rubber Company
Seattle Branch: 113-115 King Street

Branches and Dealers Everywhere **Factories: AKRON, OHIO**

Makers of the Celebrated Goodrich Automobile Tires—
"Best in the Long Run"

Don't Buy Fittings Continually

Probably the most expensive way to equip your boat is to buy cheap goods that you know nothing about. They don't last and are apt to fail you at any time.

YOU CAN GET
MARINE HARDWARE

in confidence that it will give you **certain** satisfaction—it has 69 years of established reputation back of it. It will give **lasting,** dependable service—the kind that is most economical.

Insist on the mark when you get a new anchor, wheel, compass, auto steerer, spark and throttle controls, etc.

"Sea Craft Suggestions and Supplies," our 112-page book, is full of useful suggestions, tables, etc. Sent for 10c. **Write for it now.**

WILCOX CRITTENDEN & COMPANY, Inc.
Est. 1847 **20 SO. MAIN STREET** **Middletown, Conn.**

The Sign of Quality

For Sale by all Pacific Coast Jobbers

THE "NAVY" ANCHOR

"V"-shaped lug on end of shank insures safe hold. Tripping fin on crown prevents anchor dragging on its head. Heavily galvanized head one piece-solid shank. No pockets to bring mud on deck. Ask your dealer.

WE DESIGN AND BUILD
Steam Whalers, Steel and Wooden Scows

And all types of floating equipment suited to the requirements of the Fishing Industry

LARGEST FLOATING DRY DOCK EQUIPMENT ON THE PACIFIC COAST

COMPLETE FACILITIES FOR SHIP, ENGINE AND BOILER
REPAIRS

We Supply
Equipment for Canneries, Fish Products Plants or Whaling Stations

Shipbuilders—Engine Builders—Boiler Makers, Iron and Brass Founders, Lumber Manufacturers

Parson's Marine Steam Turbines. Yarrow Boilers

Seattle Construction and Dry Dock Co.
Railroad Avenue and Charles Street
SEATTLE, U. S. A.

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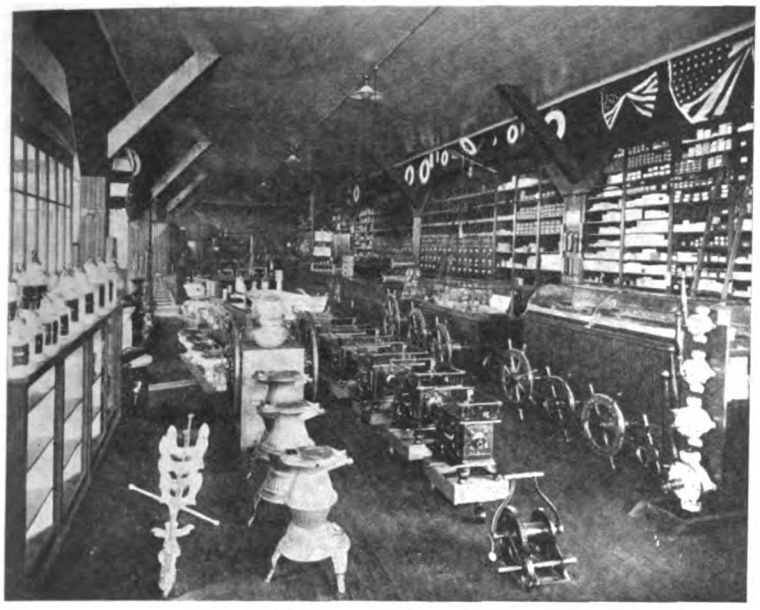
Largest Assortment of Fishing Supplies



OUR MARINE HARDWARE DEPARTMENT.

Most Complete Institution of Its Kind

Note Carefully Selected Lines from the World's Best Makers—

GOLD MEDAL COTTON TRAP AND SEINE NETTING

ROEBLING'S WIRE WEB

PLYMOUTH CORDAGE

"FRISCO" STANDARD

FERRO

and

FRISBIE

GAS ENGINES

PORTION OF OUR WAREHOUSE.

APEX TRAP CHAINS

WOOD TRAP CLEATS

CROWN OARS

APEX MAST AND TUNNEL HOOPS

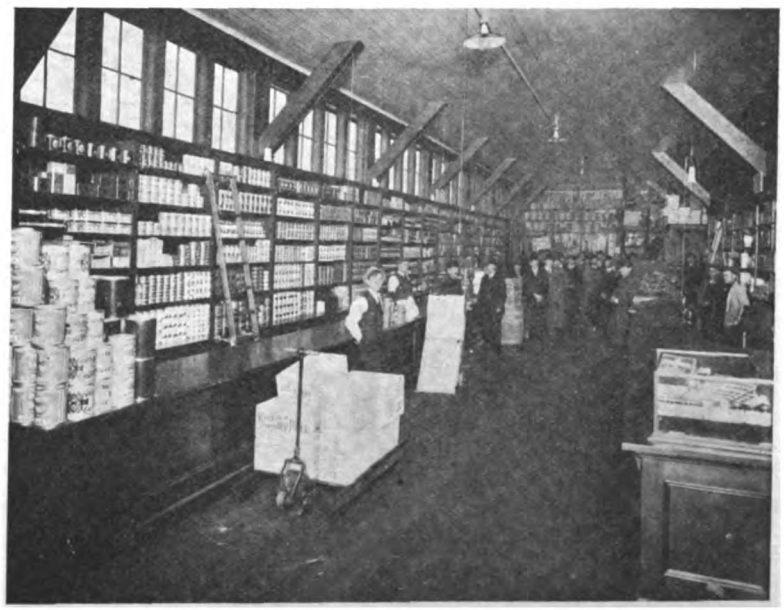
APEX HOG RINGERS

SOUTHWARK-HARRIS DIESEL ENGINES

HIRAM LOWELL SKIFFS AND DORIES

CAPE COD AND WOOLSEY'S COPPER PAINT

SHIPMATE STOVES



OUR SHIP STORES DEPARTMENT.

PACIFIC NET & TWINE CO. Pier 8 Seattle, U.S.A.

Mention Motorship.

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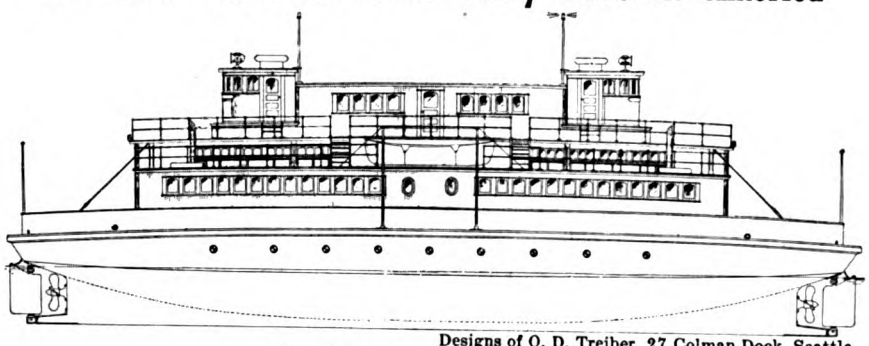
The King County Commissioners unamimously agreed that the

ATLAS TRUE DIESEL

was the best engine of all that were under consideration and accordingly placed orders for a six-cylinder 250 horse power Atlas True Diesel Engine for

The First Diesel-Powered Ferry Boat in America



Designs of O. D. Treiber, 27 Colman Dock, Seattle
King County (Wn.) New Ferry Boat

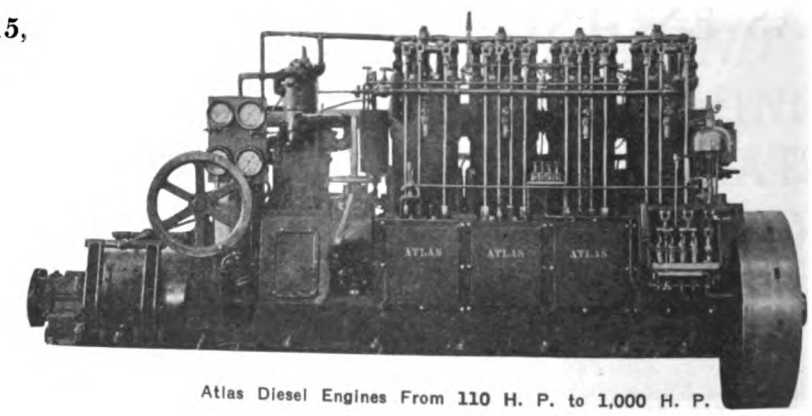
This is not the first time the manufacturers of the Atlas gas and Diesel principle engines have pointed the way by modernizing marine engine construction—It is generally conceded that the largest and most successful halibut boats plying the North Pacific and Behring Sea waters are equipped with

Atlas Gas Engines

The first seven high halibut boats, season 1915, were all Atlas Engined—

A still greater efficiency will follow the installation of

ATLAS DIESEL ENGINES



Atlas Diesel Engines From 110 H. P. to 1,000 H. P.

Atlas Gas Engine Company

Main Office and Factory:
OAKLAND, CALIFORNIA

REPRESENTATIVES:

SEATTLE, WASH.,—O. E. Nilsen, Northwest Sales Mgr., Office and Salesroom: 901 Western Ave., cor. Marion St.

Nome, Alaska—John J. Sesnon Co.
Ketchikan, Alaska—Ketchikan Iron Works.
Aberdeen, Wash.—Carl T. Nelson.
Astoria, Ore.—Atlas Gas Engine Agency, 509 Bond St.
Portland, Ore.—Bell Oil Co., 14 N. Front St.
Sacramento, Cal.—Nunes Bros., foot R St.
Stockton, Cal.—Stockton Iron Works.
Sydney, Australia—Atlas Oil Engine Co. 15 Market St.
New Orleans, La.—J. G. Davis, 1324 Music St.
Mexico City—Wm. Young & Co., La Calle de Gante No. 11.
Papeete, Tahiti—Emile Levy.
Honolulu, T. H.—Cotton, Neill & Co.

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"Asphalt-base" best: in theory and practice

U. S. Gov. experts report that oils made from asphalt-base crude **"distill without decomposition" (do not break up and lose their lubricating value under cylinder heat), and "are much better adapted to motor cylinders, as far as their carbon-forming proclivities are concerned, than paraffine-base Pennsylvania oils."**

The following extracts of letters from Pacific Coast motor boat owners show the practical experience of all those who use

ZEROLENE

the Standard Oil for Motor Boats

"I find this the best oil I have ever used. Have no carbon trouble"

"I changed to Zerolene in the middle of the heat and got ten more revolutions"

"We find that a large number of our fishermen prefer this oil and are using it exclusively. Out of 26 men interviewed, 24 were in favor of Zerolene."

"Made 5000 miles last year, making two trips to Alaska and return. Practically no carbon, and the cylinder rings and walls were in perfect condition."

(Names furnished on request)

Next time you empty your crank-case, refill with Zerolene. Dealers everywhere and at our waterfront Service Stations. See list below. Copy of address on Motor-Cylinder Lubrication before the American Society of Naval Engineers, by Lieut. Bryan, U. S. N., will be sent on request.

Standard Oil Company
(California)

Standard Waterfront Service Stations

ALASKA

Juneau
Ketchikan
* Nome
Petersburg
Wrangell
Waterfall
Sitka

OREGON

Astoria
Bandon
* Hood River
Marshfield
Portland
* The Dalles
Tillamook
Yaquina
* Klamath Falls

HAWAII

* Honolulu
* Kahului
* Port Allen

WASHINGTON

Aberdeen
Anacortes
Ballard
Bellingham
* Blaine
Bremerton
Everett
Friday Harbor
Gig Harbor
Kanaka Bay
Lake Washington
Nellita
Olympia
Point Wells
Port Angeles
Port Townsend
Port Orchard
Potlatch
Poulsbo
Richardson
Seattle
Shelton
South Bend
Tacoma
* Vancouver

CALIFORNIA

Eureka
* Grimes
* Half Moon Bay
Jersey Island
Knights Landing
Long Beach (Barge)
Martinez
* Marysville
* Monterey
Napa
* Oakland
* Oceanside
* Petaluma
Pittsburg Landing
* Princeton
* Red Bluff
Rio Vista
Sacramento
San Diego
* San Francisco
San Pedro
* San Rafael
* Santa Barbara
* Santa Cruz
* Santa Monica
Sausalito
Stockton
* Suisun
* Vallejo
* Ventura
Walnut Grove

Boats are supplied direct from our own docks except at points marked *. At these places we deliver promptly at any convenient place along the waterfront.

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Plymouth Cordage Stands The Test

These men are testing a piece of 2½ inch (dia.) Plymouth Manila Rope. It has just withstood a 45,000-pound strain, though sold to hold but 43,000.

If this surplus strength were an isolated case, it would mean little. But Plymouth Cordage in general tests "higher than card." The instance cited here is typical.

This is an important fact, for it means that whenever you buy Plymouth you secure cordage that offers a comfortable margin of safety.

Because of this margin of safety—this surplus strength—Plymouth stands up under the most severe strains of service where other kinds fall down.

And since much the same factors which make a rope strong make it durable as well, Plymouth's length of service is as superior as its strength.

Actual service is the real test and proof of the superiority of Plymouth Cordage, and that is the test we ask you to put it to.

PLYMOUTH CORDAGE COMPANY

NO. PLYMOUTH, MASS. WELLAND, ONT.

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BOLINDER

FUEL OIL ENGINES

Marine and Stationary
3 to 600 B.H.P.

HENRY LUND & CO.
AGENTS

Grand Trunk Dock
Seattle

Marine Bldg.,
San Francisco

Even in units of the largest size the M. & W. engine requires the attention of only one man, and that only a portion of the time.

After getting under way he need never go near the engine until he gets a signal from the bridge, except to see that the lubricator reservoir is filled and the fuel tank supplied.

If you are operating a steam plant you are paying the wages of one or two stokers, an engineer and perhaps an oiler and coal passer. For a plant of precisely the same power output you can reduce the payroll to the minimum.

The many valuable advantages of M. & W. engine over any other type of prime mover are interestingly described in our Bulletin M-21 which will be sent upon request. Ask us to send it, and at the same time tell us how much power you need and the service for which you need it—our engineers will gladly co-operate with you in selecting precisely the type and size of M. & W. outfit that will solve your power problem.

AUGUST MIETZ MACHINE WORKS

128 MOTT STREET, NEW YORK

(71-14)

The First **DIESEL** in an American

SUBMARINE

PASSENGER VESSEL

YACHT

BARGE

FISHING VESSEL

CANNERY TENDER

TUG BOAT

Was a **NLSECO** And They

Are All in Successful Operation

BUILT BY

NEW LONDON SHIP & ENGINE CO.

Works
Groton
Conn.

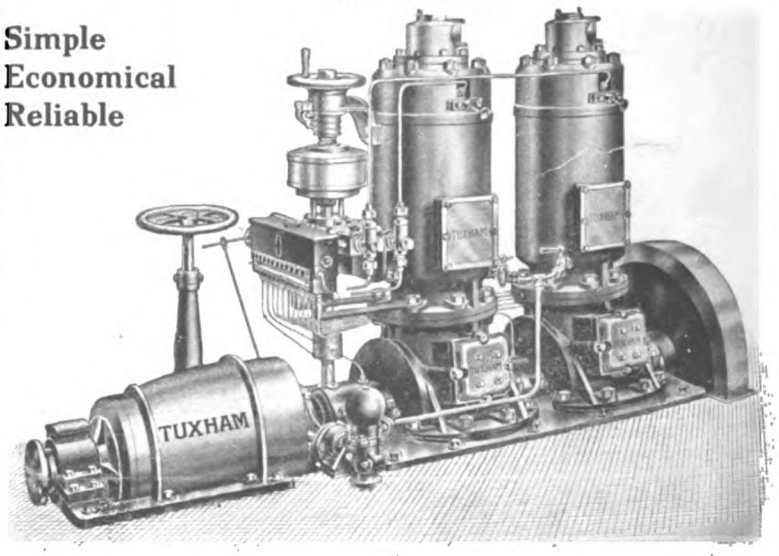
PACIFIC COAST OFFICE
19th Floor L. C. Smith Bldg.
SEATTLE, U. S. A.

TUXHAM

THE IDEAL ENGINE FOR FISH BOATS

7½ to 250 h. p.

Simple
Economical
Reliable



2-CYLINDER MODEL. 68 OR 82 H. P.
CONSUMES 1/13 GALLON CALIFORNIA FUEL OIL PER HORSE POWER HOUR.

Owing to our superior manufacturing facilities and the fact that the Tuxham Company has been successfully building semi-diesel engines for more than ten years, we are in a position to ship engines promptly from our Copenhagen factory on filing cable orders. Our time of delivery therefore compares favorably with that of any American manufacturer.

When you buy a Tuxham you get an Engine, not an Experiment.

FOR PARTICULARS AND PRICES ADDRESS:

E. PETERSEN and E. C. SCHMIEGELOW

Insurance Exchange Bldg. **San Francisco. Cal.**

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PACIFIC FISHERMAN

1321 SMITH BUILDING SEATTLE, WASH.

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AVANCE

CRUDE OIL ENGINE

6 to 320 B. H. P.

MARINE AND STATIONARY

HIGHEST AWARDS

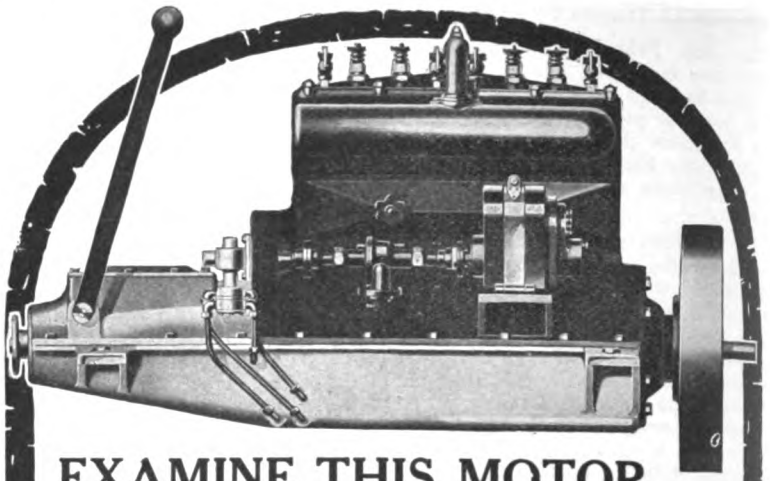
In Open Competition with All Other

LEADING MAKES IN EUROPE

Two Years Successful Running on the Pacific Coast

J. S. JOHNSON

Prince Rupert, B. C.



EXAMINE THIS MOTOR

Light and compact, yet with surplus power and endurance; running smoothly and with almost no vibration; getting full power out of every gallon of gasoline, this type QM Wisconsin Motor will give you all the power and speed for which you call upon it. Price $375.00.

Wisconsin Motors

are "sweet running" because they are correctly designed, with all reciprocating parts accurately balanced, and because of the materials and workmanship that go into them.

Write for Specifications of Different Types.

WISCONSIN MOTOR MFG. CO.

Sta. A. Dept. 305 Milwaukee, Wis.

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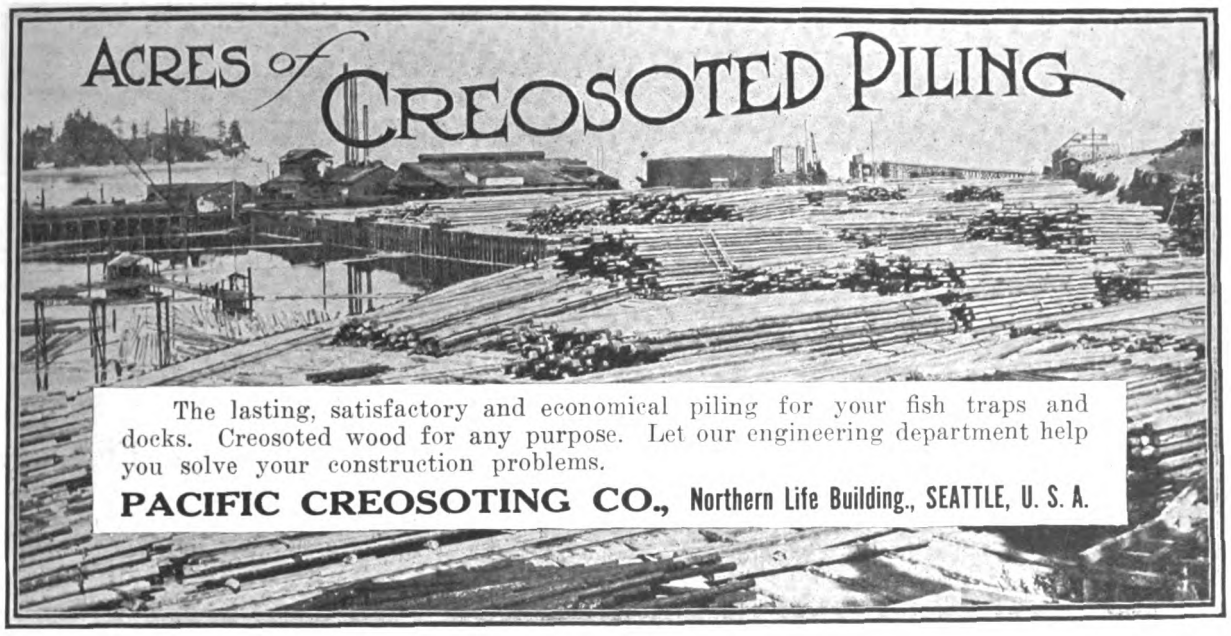

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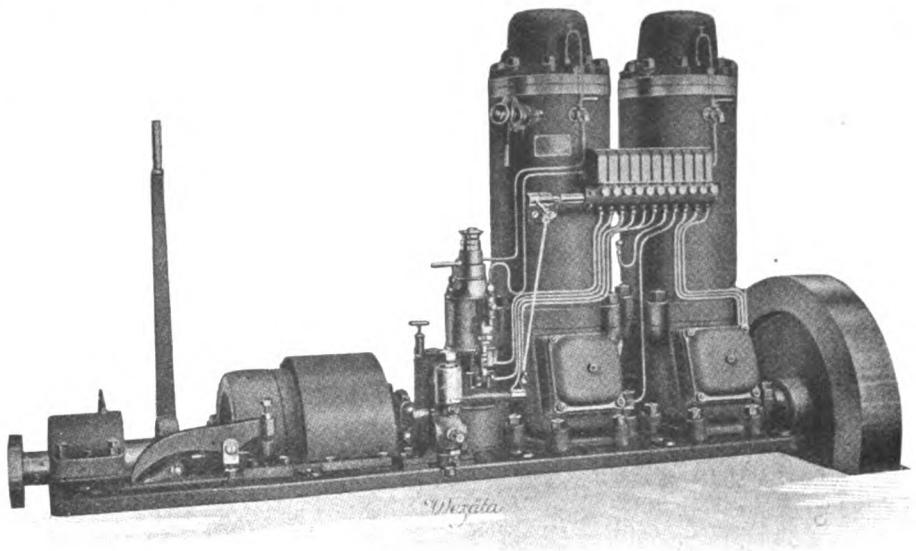

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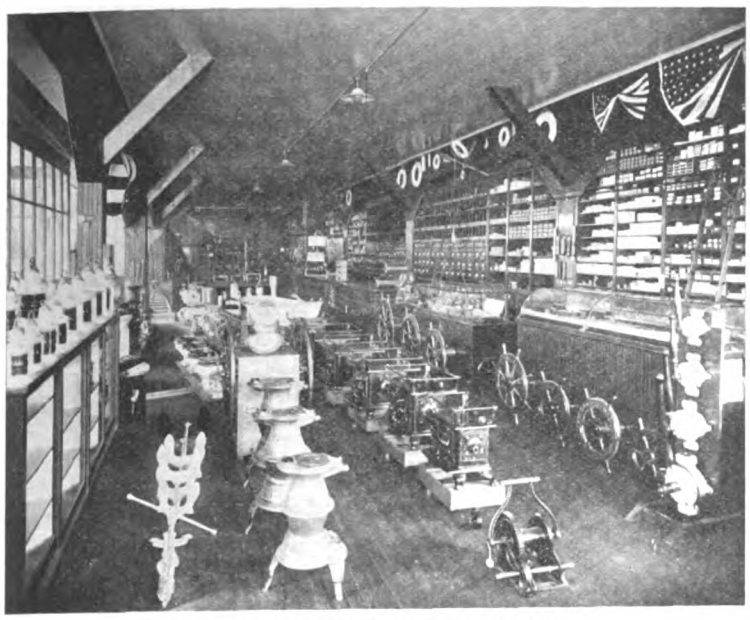

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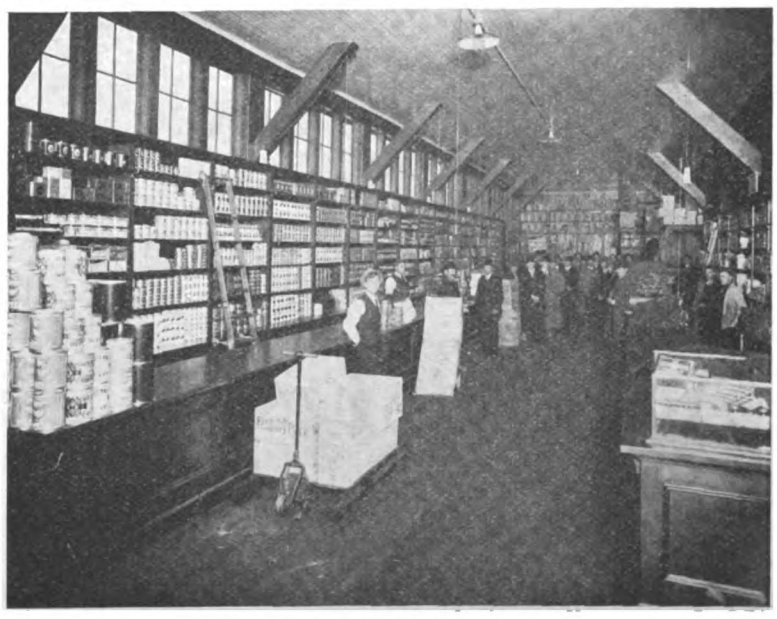

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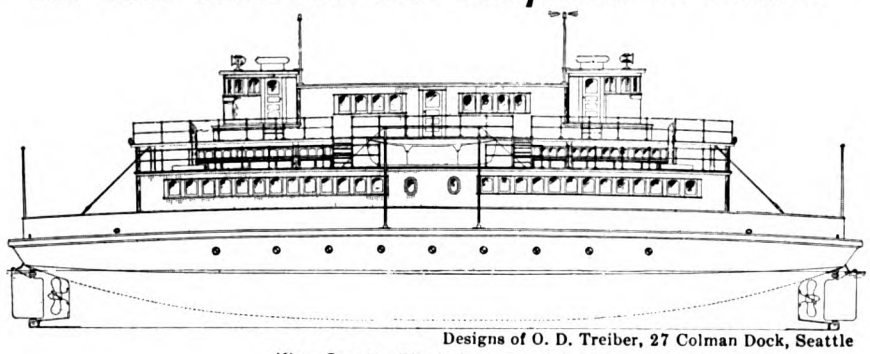
The First Diesel-Powered Ferry Boat in America



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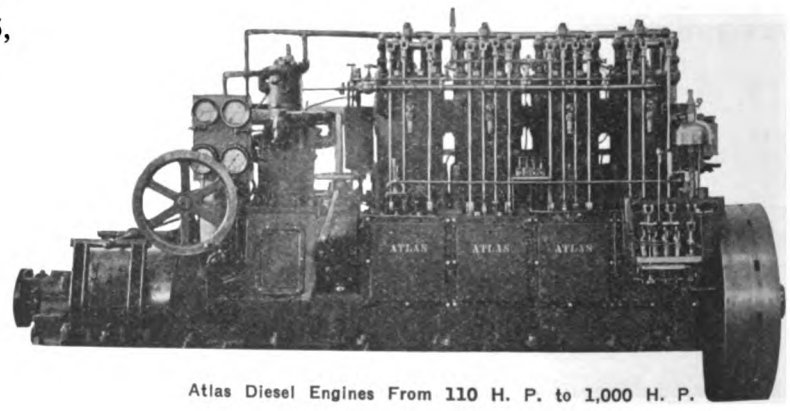

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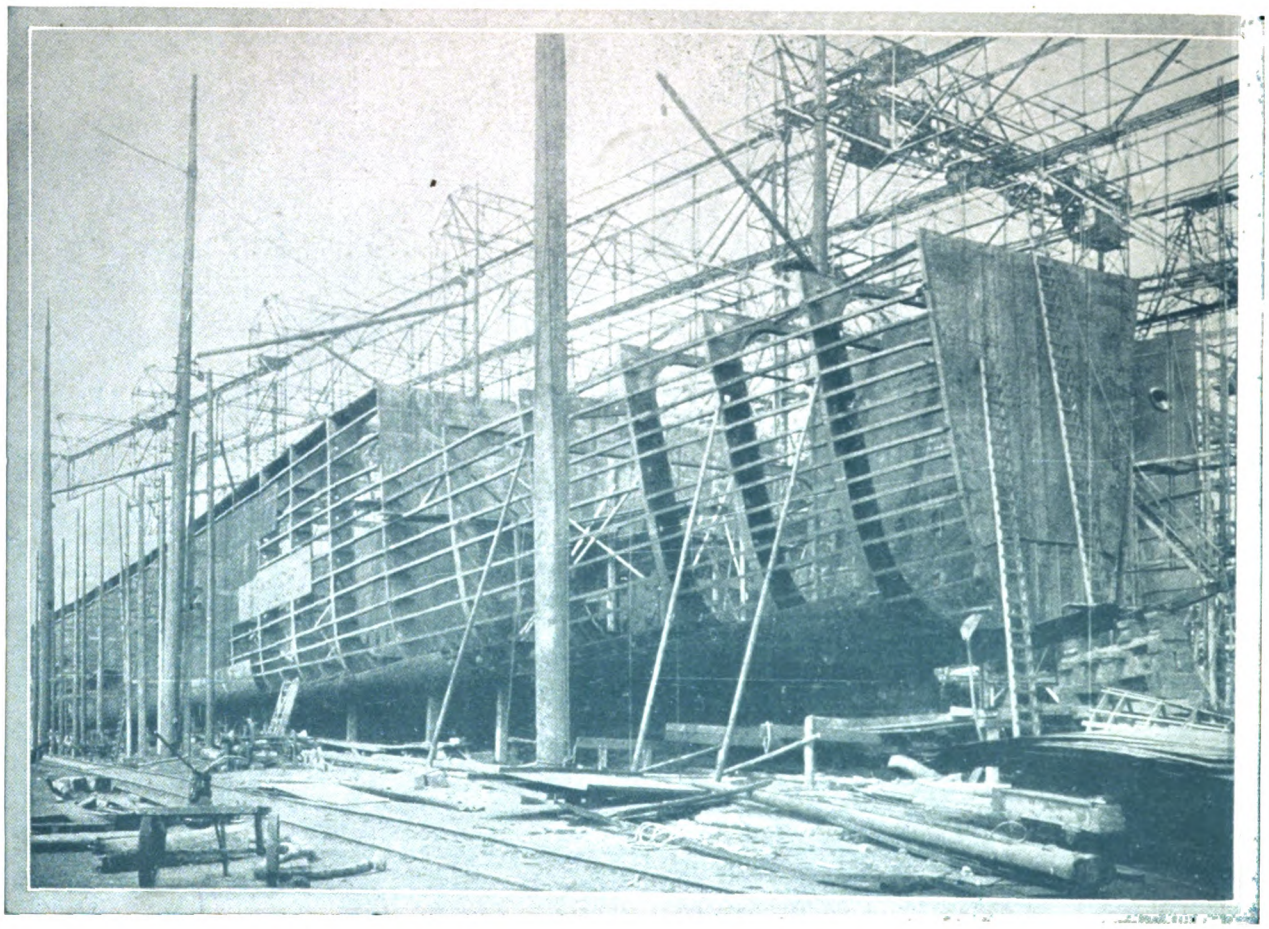

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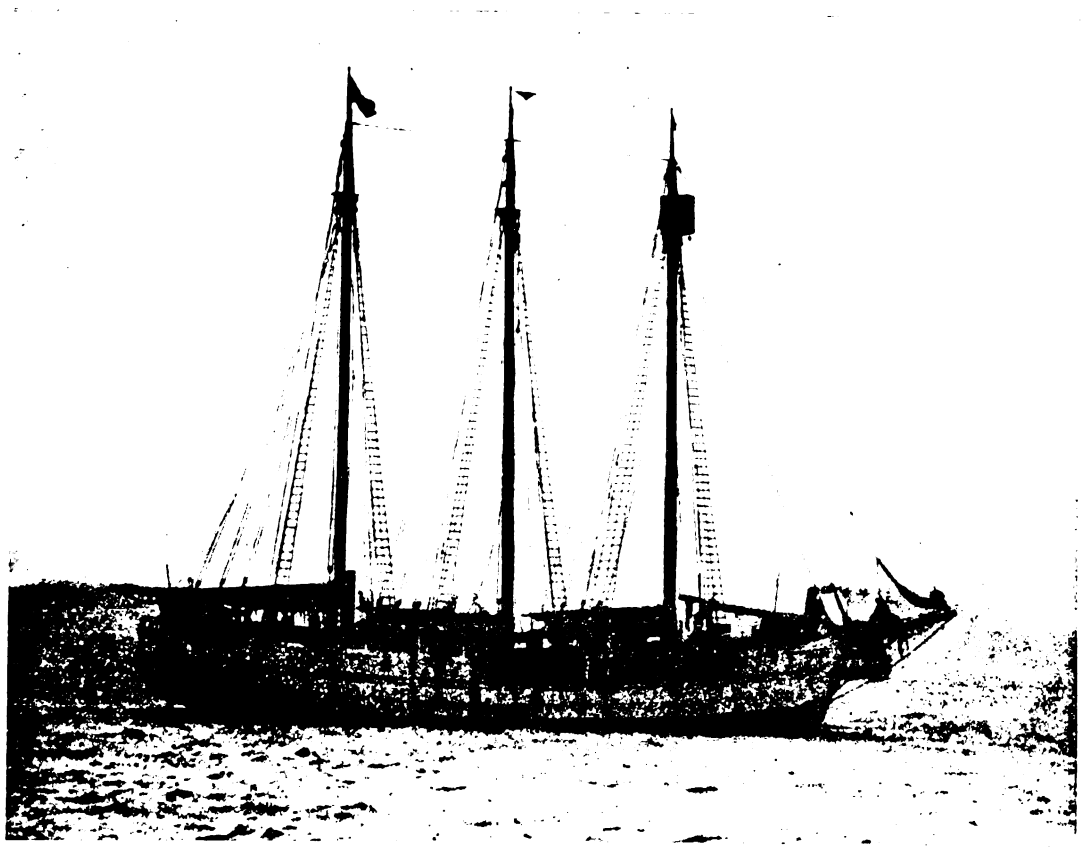

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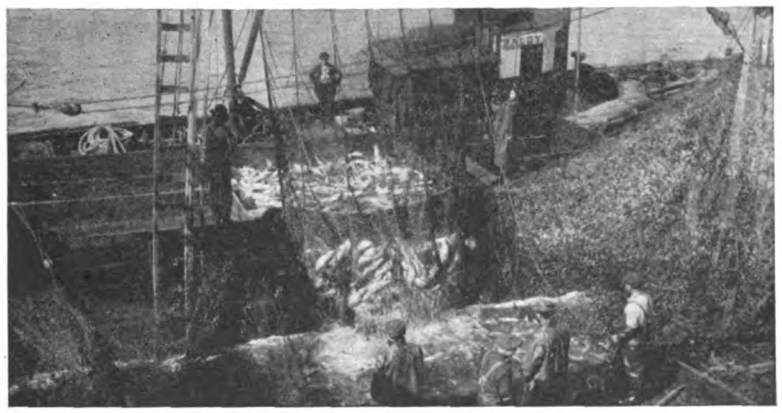

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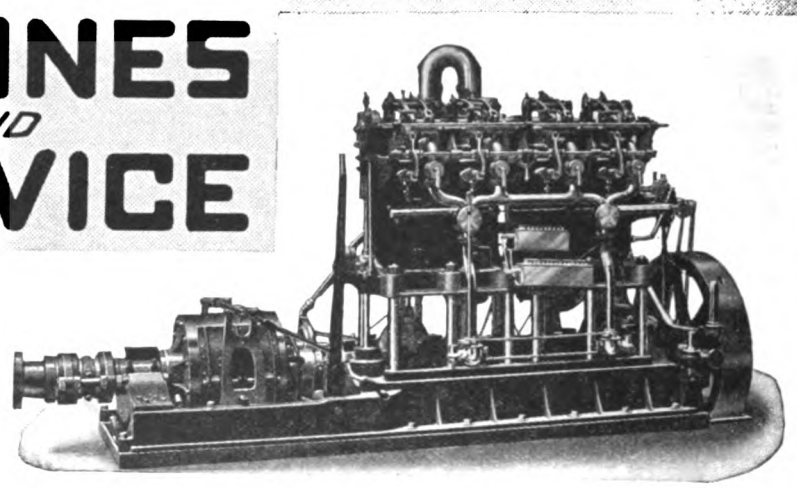

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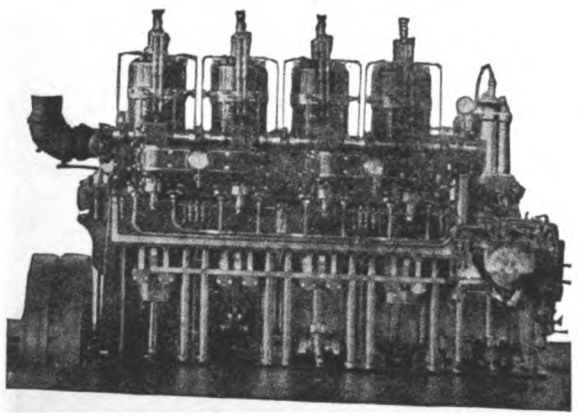

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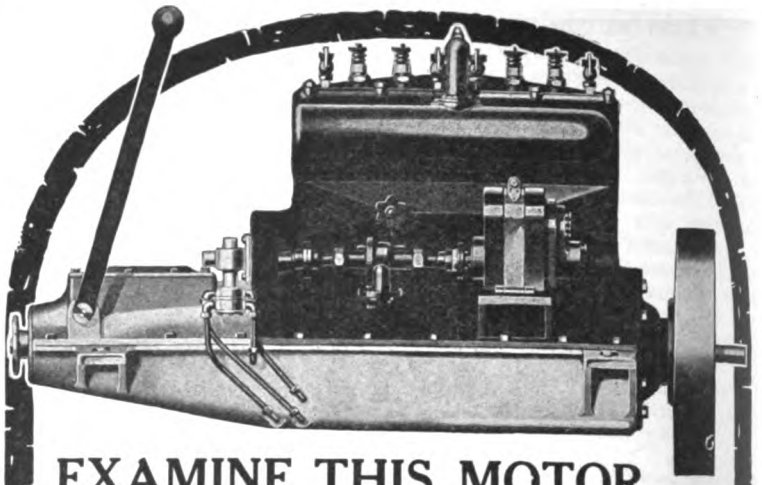

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Standard
for
Every Purpose

Ask Cunningham for Prices on
ROEBLING FISH TRAP NETTING

WIRE ROPE

77 Years of
Wire Rope
Manufacture

USE
ROEBLING WIRE

JOHN A. ROEBLING'S SONS COMPANY of CALIFORNIA
900 FIRST AVENUE SOUTH, SEATTLE — W. F. RICHARDSON, Mgr.
Pacific Coast Headquarters:
624-646 Folsom St., San Francisco. S. V. Mooney, General Manager
216 South Alameda St., Los Angeles. I. J. Francis, Manager
82 Fourth St., Portland, Ore. L. H. Parker, Manager
Factories: Trenton and Roebling, N. J.

SHIPMATE RANGES

10 Sizes — 14 Numbers

NEW WORDS TO OLD CHANTEYS.

The skipper went ashore for to see the stevedore,
Hey, bully boys, and we'll all go ashore!
And the cook has gone ashore for to buy an oven door,
Heave along, bullies, and we'll all go ashore.

The cook came aboard with a new SHIPMATE,
Hey, bully boys, and we won't go ashore!
We'll stand by the ship now he's got a decent grate,
Heave along, bullies, and we won't go ashore.

Made by

THE STAMFORD FOUNDRY COMPANY
Established 1830 — Stamford, Conn.

PACIFIC COAST AGENCIES
HOLBROOK, MERRILL & STETSON, Sixth, Bluxome & Townsend Sts., San Francisco, Cal.
PACIFIC NET & TWINE COMPANY, Pier 8, Seattle, Washington.
THE BEEBE COMPANY, 182-184-186 Morrison St., Portland, Oregon.
THE CANADIAN FAIRBANKS-MORSE COMPANY, 798 Beatty St., Vancouver, B. C.

SAWYER'S

EXCELSIOR BRAND

SAWYER'S CRACK-PROOF TRADE MARK EXCELSIOR

OILED CLOTHING

Made Especially for FISHERMEN—Strong, Flexible, Waterproof

FOR SALE BY

UNITED STATES RUBBER COMPANY, OF CALIFORNIA

SEATTLE TACOMA PORTLAND SAN FRANCISCO LOS ANGELES

EDWARD LIPSETT—Vancouver, B. C., and Prince Rupert, B. C.

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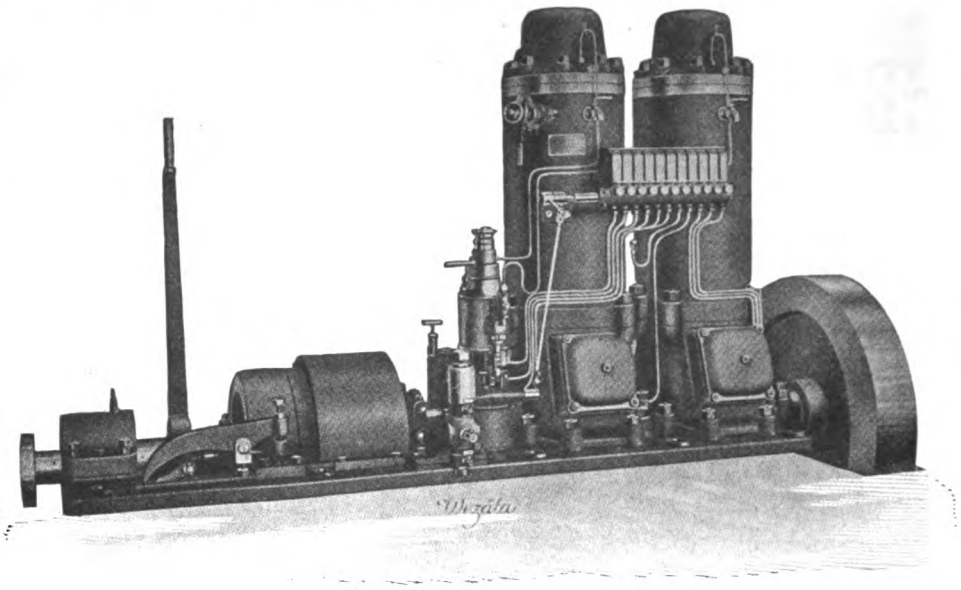
SKANDIA SEMI-DIESEL CRUDE OIL ENGINE

For CUTTERS, SCHOONERS, FISHING BOATS, TUGS, Etc.
Especially Suitable as AUXILIARY ENGINES in Sailing Vessels

Economical
Reliable

Low Fuel
Consumption



Standard Sizes,
5-500 B. H. P.

250,000 B. H. P.
of SKANDIA
Engines Already in
Use all Over
the World

ALASKA AND NORTHWESTERN REPRESENTATIVES

SKANDIA ENGINEERING COMPANY *208 Grand Trunk Dock* Seattle

J. H. HANSEN & CO., Pacific Coast Agents, SAN FRANCISCO

GOLD SEAL
Crack Proof Boots
SEWARD SOLE

THE BEST and STRONGEST MANUFACTURED TO MEET THE DEMAND OF THE

FISHING TRADE

Stout's Patent Snagproof Boots

Stout's Patent 'Longshore Boots

ALL GENUINE GOLD SEAL CRACK PROOF BOOTS BEAR THIS HEEL IMPRINT AND OUR GOLD SEAL TRADE MARK ON LEG

Gold Seal and Badger Brands

OILED CLOTHING

For Sale by All Reliable Dealers

We Also Manufacture a Complete Line of

BELTING - PACKING - HOSE

NOTE
"Knee Patch"
"Reinforced Inside Knee Band"
"Reinforced Seward Sole"

GOODYEAR RUBBER CO.

SAN FRANCISCO, CAL.
587-589 Market St.
R. H. PEASE, President
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PORTLAND, ORE.
61-67 Fourth St.
C. F. RUNYON, Secretary
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TOWER'S TRADE MARK FISH BRAND

FOR MEN WHO WORK IN THE WET

TOWER'S *FISH BRAND* WATERPROOF CLOTHING
APRONS, SLEEVES and HATS

Fish Brand goods are made of the best materials. Sized big for comfort, strong at every point. In fact, made for men who give waterproof garments the very hardest wear.

For 80 years the greatest value in the Waterproof Clothing market.

SATISFACTION GUARANTEED

At Wholesale

Seattle. Northwestern Shoe Co.. West Coast Rubber Co.

Portland. Fleischner, Meyer & Co. Hirsch-Weis Mfg. Co. C. R. Winslow & Co.

San Francisco. Ames, Harris, Neville Co. Buckingham & Hecht. Cahn, Nickelsburg & Co. Greenebaum, Weil & Michaels. Moore-Watson Dry Goods Co. New York Belting & Packing Co. O'Rourke, Eubanks Hat Co. Levi Strauss & Co. C. R. Winslow & Co.

Los Angeles. Cohn, Goldwater & Co. Wm. H. Hoegee Co. Klein-Norton Co. Norton Bros. & Morris

A. J. Tower Co.
BOSTON
Pacific Coast Branch
SAN FRANCISCO

Mention Motorship.

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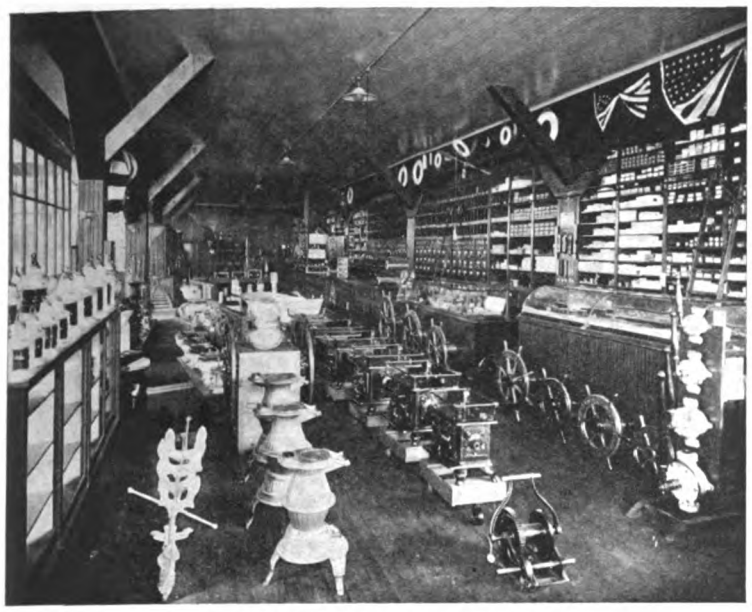
Largest Assortment of Fishing Supplies



OUR MARINE HARDWARE DEPARTMENT.

Most Complete Institution of Its Kind

Note Carefully Selected Lines from the World's Best Makers—

GOLD MEDAL COTTON TRAP AND SEINE NETTING

ROEBLING'S WIRE WEB

PLYMOUTH CORDAGE

"FRISCO" STANDARD

FERRO

and

FRISBIE

GAS ENGINES

PORTION OF OUR WAREHOUSE.

APEX TRAP CHAINS

WOOD TRAP CLEATS

CROWN OARS

APEX MAST AND TUNNEL HOOPS

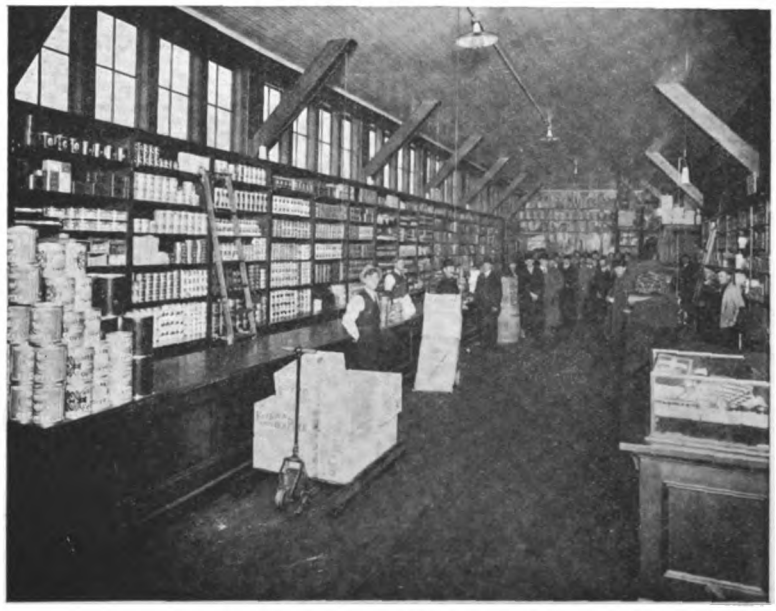
APEX HOG RINGERS

SOUTHWARK-HARRIS DIESEL ENGINES

HIRAM LOWELL SKIFFS AND DORIES

CAPE COD AND WOOLSEY'S COPPER PAINT

SHIPMATE STOVES



OUR SHIP STORES DEPARTMENT.

PACIFIC NET & TWINE CO. Pier 8 Seattle, U.S.A.

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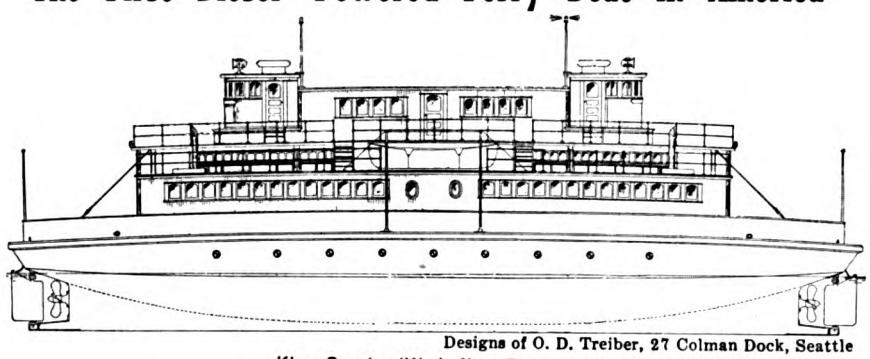
The King County Commissioners unamimously agreed that the

ATLAS TRUE DIESEL

was the best engine of all that were under consideration and accordingly placed orders for a six-cylinder 250 horse power Atlas True Diesel Engine for

The First Diesel-Powered Ferry Boat in America



Designs of O. D. Treiber, 27 Colman Dock, Seattle
King County (Wn.) New Ferry Boat

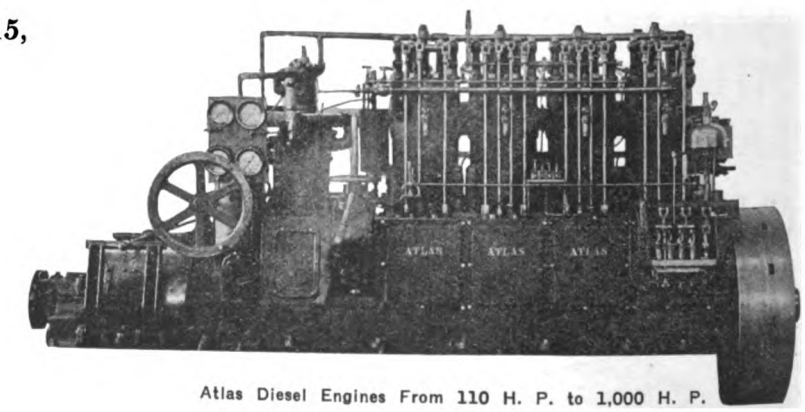
This is not the first time the manufacturers of the Atlas gas and Diesel principle engines have pointed the way by modernizing marine engine construction—It is generally conceded that the largest and most successful halibut boats plying the North Pacific and Behring Sea waters are equipped with

Atlas Gas Engines

The first seven high halibut boats, season 1915, were all Atlas Engined—

A still greater efficiency will follow the installation of

ATLAS DIESEL ENGINES



Atlas Diesel Engines From 110 H. P. to 1,000 H. P.

Atlas Gas Engine Company

Main Office and Factory:
OAKLAND, CALIFORNIA

REPRESENTATIVES:

SEATTLE, WASH.,—O. E. Nilsen, Northwest Sales Mgr., Office and Salesroom: 901 Western Ave., cor. Marion St.

Nome, Alaska—John J. Sesnon Co.
Ketchikan, Alaska—Ketchikan Iron Works.
Aberdeen, Wash.—Carl T. Nelson.
Astoria, Ore.—Atlas Gas Engine Agency, 509 Bond St.
Portland, Ore.—Bell Oil Co., 14 N. Front St.
Sacramento, Cal.—Nunes Bros., foot R St.
Stockton, Cal.—Stockton Iron Works.
Sydney, Australia—Atlas Oil Engine Co. 15 Market St.
New Orleans, La.—J. G. Davis, 1324 Music St.
Mexico City—Wm. Young & Co., La Calle de Gante No. 11.
Papeete, Tahiti—Emile Levy.
Honolulu, T. H.—Cotton, Neill & Co

Mention Motorship.

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"Asphalt-base" best: in theory and practice

U. S. Gov. experts report that oils made from asphalt-base crude **"distill without decomposition" (do not break up and lose their lubricating value under cylinder heat), and "are much better adapted to motor cylinders, as far as their carbon-forming proclivities are concerned, than paraffine-base Pennsylvania oils."**

The following extracts of letters from Pacific Coast motor boat owners show the practical experience of all those who use

ZEROLENE

the Standard Oil for Motor Boats

"I find this the best oil I have ever used. Have no carbon trouble"

"I changed to Zerolene in the middle of the heat and got ten more revolutions"

"We find that a large number of our fishermen prefer this oil and are using it exclusively. Out of 26 men interviewed, 24 were in favor of Zerolene."

"Made 5000 miles last year, making two trips to Alaska and return. Practically no carbon, and the cylinder rings and walls were in perfect condition."

(Names furnished on request)

Next time you empty your crank-case, refill with Zerolene. Dealers everywhere and at our waterfront Service Stations. See list below. Copy of address on Motor-Cylinder Lubrication before the American Society of Naval Engineers, by Lieut. Bryan, U. S. N., will be sent on request.

Standard Oil Company
(California)

Standard Waterfront Service Stations

ALASKA

Juneau
Ketchikan
* Nome
Petersburg
Wrangell
Waterfall
Sitka

OREGON

Astoria
Bandon
* Hood River
Marshfield
Portland
* The Dalles
Tillamook
Yaquina
* Klamath Falls

HAWAII

* Honolulu
* Kahului
* Port Allen

WASHINGTON

Aberdeen
Anacortes
Ballard
Bellingham
* Blaine
Bremerton
Everett
Friday Harbor
Gig Harbor
Kanaka Bay
Lake Washington
Nellita
Olympia
Point Wells
Port Angeles
Port Townsend
Port Orchard
Potlatch
Poulsbo
Richardson
Seattle
Shelton
South Bend
Tacoma
* Vancouver

CALIFORNIA

Eureka
* Grimes
* Half Moon Bay
Jersey Island
Knights Landing
Long Beach (Barge)
Martinez
* Marysville
* Monterey
Napa
* Oakland
* Oceanside
* Petaluma
Pittsburg Landing
* Princeton
* Red Bluff
Rio Vista
Sacramento
San Diego
* San Francisco
San Pedro
* San Rafael
* Santa Barbara
* Santa Cruz
* Santa Monica
Sausalito
Stockton
* Suisun
* Vallejo
* Ventura
Walnut Grove

Boats are supplied direct from our own docks except at points marked *. At these places we deliver promptly at any convenient place along the waterfront.

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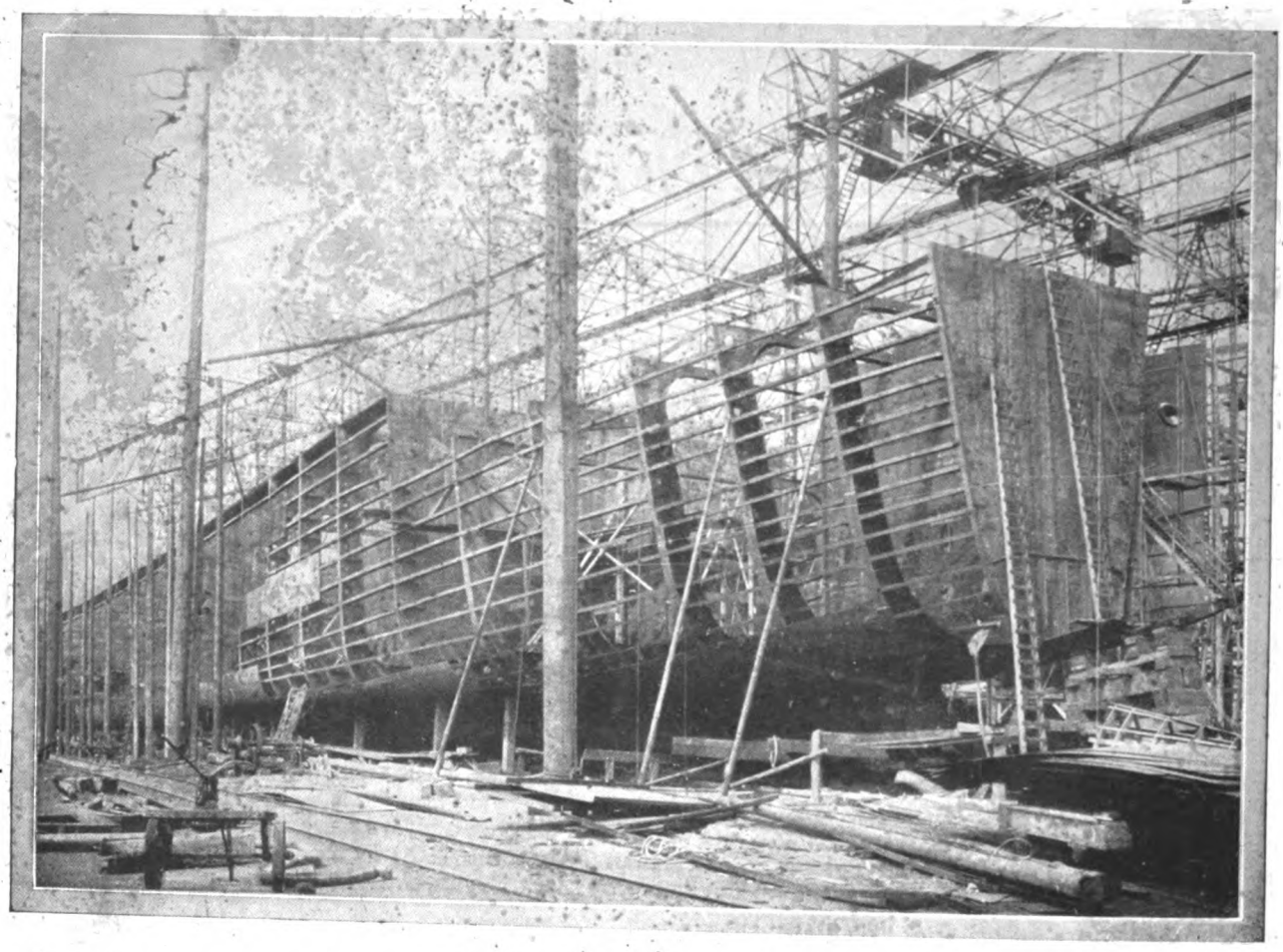
"ISHERWOOD SYSTEM OF SHIP CONSTRUCTION"

Suitable for All Types of Vessels

Specially Advantageous for Oil Steamers



Increased Strength. Increased Capacity for Bale Goods. Increased D. W. Carrying Capacity. Improved Ventilation. Reduced Cost of Maintenance. Reduced Vibration. 500 vessels representing about 3,650,000 tons dead weight carrying capacity. 205 Bulk Oil Carriers representing about 1,886,000 tons dead weight carrying capacity.

FOR PARTICULARS APPLY TO

Telephone—
1064 Avenue

J. W. ISHERWOOD

Telegraphic Address—
"Ishercon"

4, LLOYD'S AVENUE, LONDON, E. C.
or to S. C. CHAMBERS & CO., 3 KING STREET, LIVERPOOL

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BOLINDER'S

Dimensions—140 Feet Length O. A. by 32 Feet Beam by 13 Feet Moulded Depth

Auxiliary Power Schooner "Great Bear," Fitted With 160 B. H. P. "Bolinder" Fuel Oil Engine, Model M1, Direct Reversible

Upon a short trial run this vessel developed a speed of NINE knots per hour, with the engines turning up 225 revolutions per minute.

Average consumption of fuel oil, 11 gals. per hour.

HENRY LUND & CO.

SEATTLE: 220 Grand Trunk Dock **SAN FRANCISCO: Marine Building**

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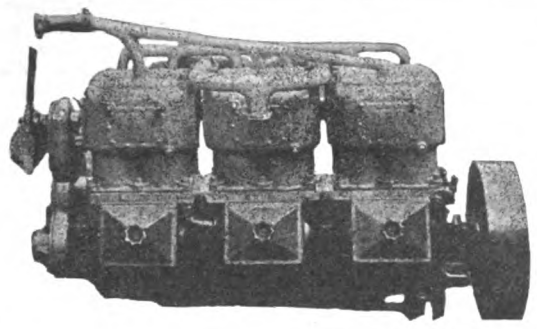
George W. Miller's Specials

SENSATIONAL SNAPS AUTO ENGINES FOR MOTOR BOATS

Why Pay $750 to $1500 When You Can Get Just the Engine You Want for $25 to $250?

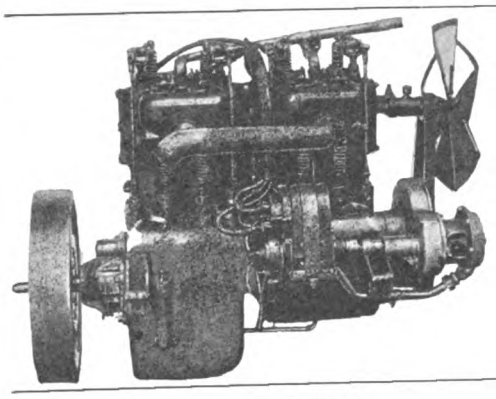
Hundreds now in use and our customers coming back for more. Here are a few prices that defy competition:



Six Cylinder

48.6 horsepower at 1,000 revolutions per minute, develops 64 actual horsepower. Length 53 inches, width 22 inches, height 30 inches, weight 750 lbs. WITH MAGNETO.

$125.00



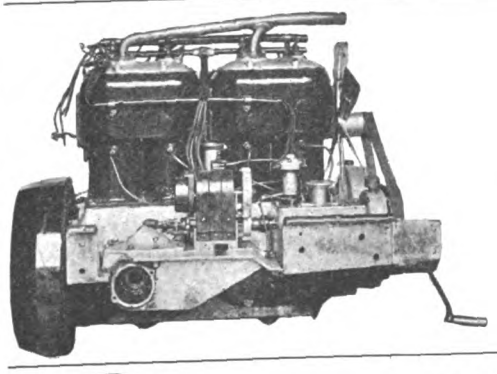
OVERHEAD VALVE MOTOR

Many styles and sizes to choose from. Up to 30 HORSEPOWER.

$75 Complete

GREATER HORSEPOWER

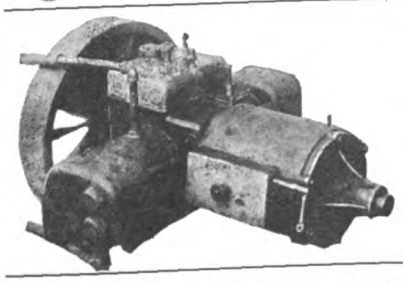
$100



STEARNS 67 HORSEPOWER

4-cylinder. For heavy duty marine work this motor can't be beaten. Priced at

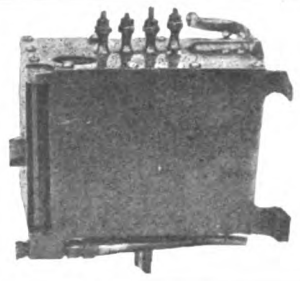
$195



FOR SMALL BOAT WORK

2-cylinder, opposed type, compact, strong, easy to mount. We carry full line at prices from

$25 to $50

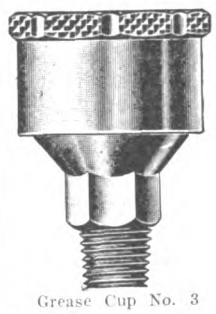


OILERS

We can save you money on all kinds of Oilers. Here's a sample price:

RATCHET FORCE FEED OILER

$5.00



Grease Cup No. 3

Small Grease Cups, up to 1½ inches in diameter

10c each

Two inches and over

25c each

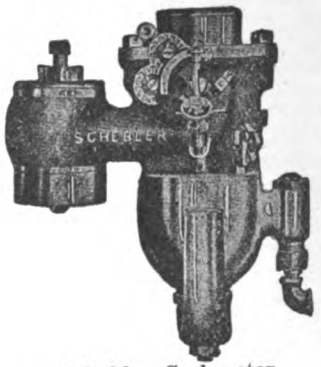
OUR BIG SPECIAL

Bolts

ASSORTED SIZES

10 Lbs. for 50c

CARBURETORS



Schebler Carburetor

We carry all standard makes of used Carburetors at prices that are genuine bargains.

SCHEBLER AT

$3.50 Each

STROMBERG AND RAYFIELD AT

$10 Each

Others from $1.00 to $2.50

Auto Tops for Boats

Large assortment of used tops and top sundries at one-third to one-fifth usual prices.

ELECTRIC SEARCHLIGHTS

New, each $4.50; used, each.....$2.00
Gas Searchlights, used, each.....$3.50

Prest-o-lite Gas Tanks Large Size $10

Transmissions

4-Speed Selective and Clutch....$55.00
4-Speed Selective, without Clutch.....$45.00
2-Speed Planetary.....$17.50

WARNING SIGNALS

Mechanical Hand Horns, (new).....$2.50
Mechanical Hand Horns, (used).....$1.75
Electric Horns, (used).....$3.00
Klaxon Horns, (used).....$6.50
Jerico Exhaust Horns, (used).....$1.25

Gasoline Tanks

35 gal. $10.00
15 gal. 6.00
18 gal. 7.00
15 gal. under seat, galvanized 1.75

Mail Orders Promptly Filled

George W. Miller Co.

715 East Pine St., Seattle, Wash.

Let us send you our special price list of used auto parts.

There's Money In It!

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UNION
28 YEARS OF
ENGINEERING SUCCESS

Notwithstanding

The low prices at which some manufacturers are offering their engines, the sale of UNION Engines this season has led all other makes in point of:

Number of bona fide orders,
Total value of these orders, and
Prominence of purchasers.

**"UNION" ENGINES
CONTINUE TO SELL ON
QUALITY
IN SPITE OF COMPETING
LOW PRICES**

Union Gas Engine Company

24 California St. SAN FRANCISCO

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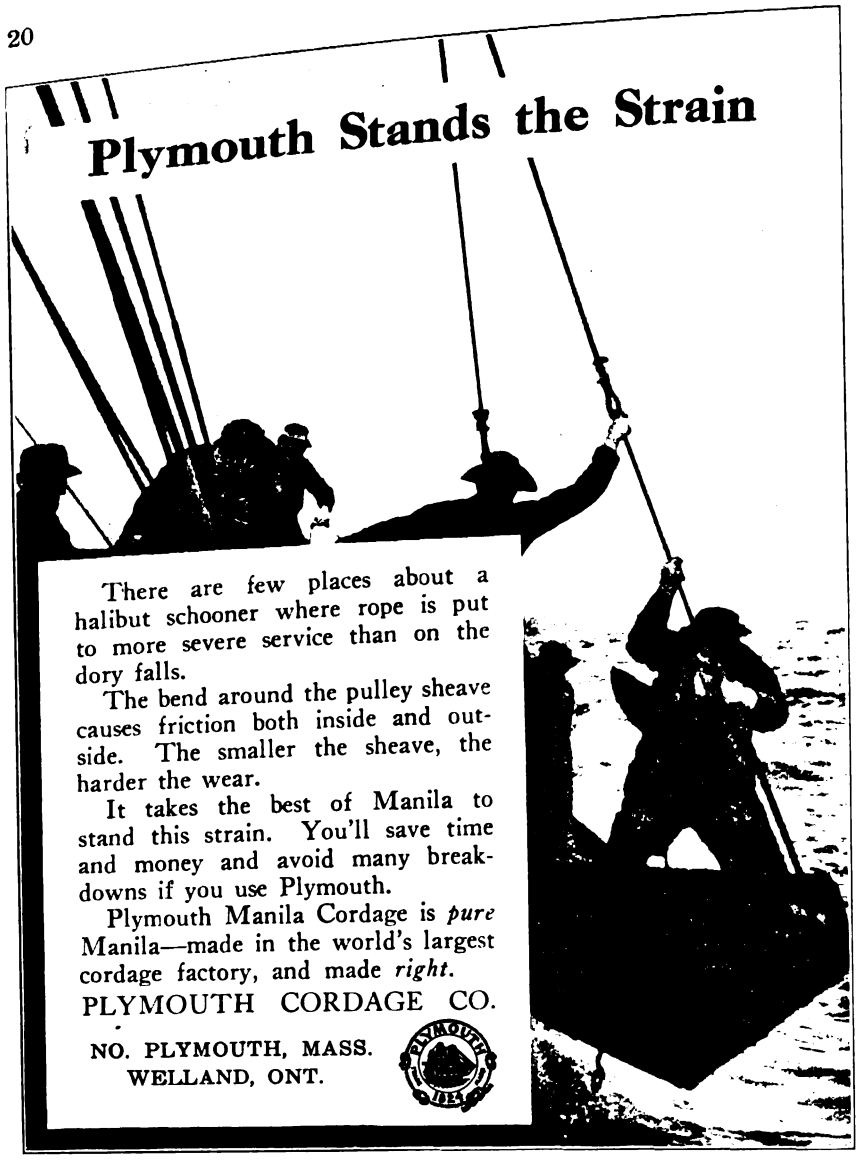
Plymouth Stands the Strain



There are few places about a halibut schooner where rope is put to more severe service than on the dory falls.

The bend around the pulley sheave causes friction both inside and outside. The smaller the sheave, the harder the wear.

It takes the best of Manila to stand this strain. You'll save time and money and avoid many breakdowns if you use Plymouth.

Plymouth Manila Cordage is *pure* Manila—made in the world's largest cordage factory, and made *right*.

PLYMOUTH CORDAGE CO.

NO. PLYMOUTH, MASS.
WELLAND, ONT.

Even in units of the largest size the M. & W. engine requires the attention of only one man, and that only a portion of the time.

After getting under way he need never go near the engine until he gets a signal from the bridge, except to see that the lubricator reservoir is filled and the fuel tank supplied.

If you are operating a steam plant you are paying the wages of one or two stokers, an engineer and perhaps an oiler and coal passer. For a plant of precisely the same power output you can reduce the payroll to the minimum.

The many valuable advantages of M. & W. engine over any other type of prime mover are interestingly described in our Bulletin M-21 which will be sent upon request. Ask us to send it, and at the same time tell us how much power you need and the service for which you need it—our engineers will gladly cooperate with you in selecting precisely the type and size of M. & W. outfit that will solve your power problem.

AUGUST MIETZ MACHINE WORKS

128 MOTT STREET, NEW YORK

(71-14)

The First **DIESEL** in an American

SUBMARINE
PASSENGER VESSEL
YACHT
BARGE
FISHING VESSEL
CANNERY TENDER
TUG BOAT
GENERAL CARGO VESSEL

Was a **NLSECO** And They

Are All in Successful Operation

BUILT BY

NEW LONDON SHIP & ENGINE CO.

Works
Groton
Conn.

PACIFIC COAST OFFICE
19th Floor L. C. Smith Bldg.
SEATTLE, U. S. A.

Pacific Creosoting Company's Plant at Eagle Harbor, one of the largest in the world, where piling is treated to make it last 15 to 25 years.

CREOSOTED PILING

For Fish Traps, Docks and All Salt Water construction; creosoted by the most modern scientific processes. Creosoted timbers, bridge stringers, and all forms of creosoted wood products. Our engineering department will be glad to give you estimates.

PACIFIC CREOSOTING CO.

Northern Life Building
Seattle

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AVANCE

CRUDE OIL ENGINE

6 to 320 B. H. P.

MARINE AND STATIONARY

HIGHEST AWARDS

In Open Competition with All Other

LEADING MAKES IN EUROPE

Two Years Successful Running on the Pacific Coast

J. S. JOHNSON

Prince Rupert, B. C.

WISCONSIN MOTOR MFG. COMPANY

STA. A—DEPT. 305 MILWAUKEE, WIS.

PACIFIC COAST DISTRIBUTORS:

Earl P. Cooper Co., 1428 Bush St., San Francisco, Cal.
W. F. McKenney, 68 First St., Portland, Oregon
Chandler, Dunlap Co., Seattle, Wash.

Long Before the Motor Boat

Marine Hardware had been recognized as standard. Many hardy sea captains of the old days fought their way "'Round the Horn" in sturdy ships equipped with Fittings. Then, as now, meant DEPENDABLE—distinguished Marine Hardware that could be relied upon in breeze or gale. The same high standard is maintained today.

For Sale by all Pacific Coast Jobbers

GET THIS VALUABLE ILLUSTRATED BOOK—112 pages. Contains facts about Anchoring, Moorings, Compasses, etc., that every boatman wants to know. More than a mere catalog. Sent for 10c. Write now.

WILCOX, CRITTENDEN & CO., Inc.

Established 1847

20 SOUTH MAIN STREET MIDDLETOWN, CONN.

World's Largest Manufacturer of Marine Hardware

Manufacturers of the Famous Maxim Silencer for Motor Boats.

Oil Compass

Carefully made and adjusted—fully guaranteed. Dial as small as 2 inches for use in dories.

"Compass Talk & Tests" free.

WE DESIGN AND BUILD

Steam Whalers, Steel and Wooden Scows

And all types of floating equipment suited to the requirements of the Fishing Industry

---

LARGEST FLOATING DRY DOCK EQUIPMENT ON THE PACIFIC COAST

COMPLETE FACILITIES FOR SHIP, ENGINE AND BOILER

REPAIRS

We Supply

Equipment for Canneries, Fish Products Plants or Whaling Stations

Shipbuilders—Engine Builders—Boiler Makers, Iron and Brass Founders, Lumber Manufacturers

Parson's Marine Steam Turbines. Yarrow Boilers

Seattle Construction and Dry Dock Co.

Railroad Avenue and Charles Street
SEATTLE, U. S. A.

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USE A STRONG, DURABLE,
EXTRA HEAVY GALVANIZED
FISH TRAP NETTING
SUCH AS THE
ROEBLING
MAKE
WIRE ROPE FOR EVERY PURPOSE
JOHN A. ROEBLING'S SONS COMPANY of CALIFORNIA
900 FIRST AVENUE SOUTH, SEATTLE W. F. RICHARDSON, Mgr.
Pacific Coast Headquarters:
624-646 Folsom St., San Francisco. S. V. Mooney, General Manager
216 South Alameda St., Los Angeles. I. J. Francis, Manager
82 Fourth St., Portland, Ore. L. H. Parker, Manager
Factories: Trenton and Roebling, N. J.

Ask Cunningham for Prices on Roebling Fish Trap Netting

SHIPMATE RANGES
10 Sizes 14 Numbers

Important as may be the other fittings of a vessel, those of the galley **must be right,** to insure the comfort, cheerfulness and efficiency of all on board. In the hands of a good steward, a Shipmate range will keep the crew feeling "rap full" and ready for duty all the time.

Made by
THE STAMFORD FOUNDRY COMPANY
Established 1830 Stamford, Conn.

PACIFIC COAST AGENCIES
HOLBROOK, MERRILL & STETSON, Sixth, Bluxome & Townsend Sts., San Francisco, Cal.
PACIFIC NET & TWINE COMPANY, Pier 8, Seattle, Washington.
THE CANADIAN FAIRBANKS-MORSE COMPANY, 798 Beatty St., Vancouver, B. C.

SAWYER'S
EXCELSIOR BRAND
OILED CLOTHING
SAWYER'S CRACK-PROOF TRADE MARK EXCELSIOR
Made Especially for FISHERMEN—Strong, Flexible, Waterproof
FOR SALE BY
UNITED STATES RUBBER COMPANY, OF CALIFORNIA
SEATTLE TACOMA PORTLAND SAN FRANCISCO LOS ANGELES
EDWARD LIPSETT—Vancouver, B. C., and Prince Rupert, B. C.

Mention Motorship.

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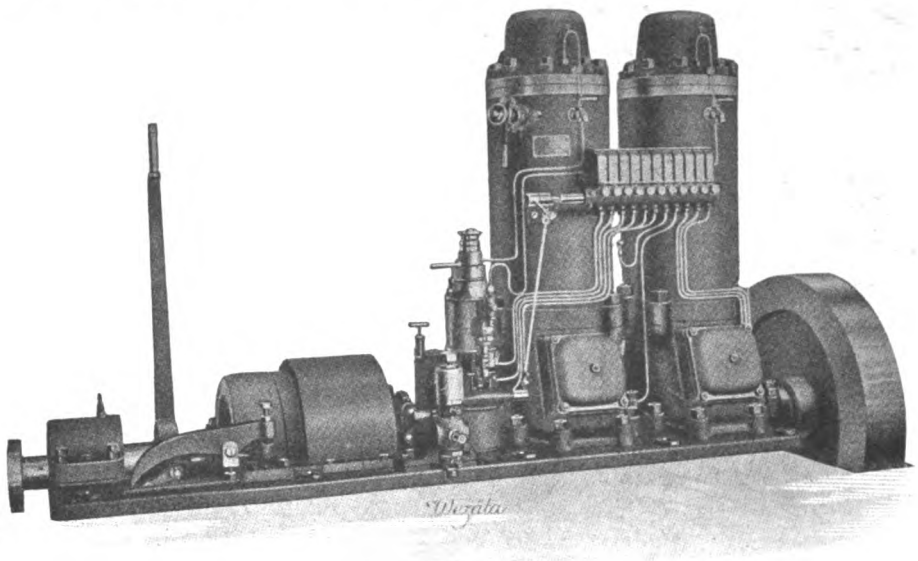
SKANDIA SEMI-DIESEL CRUDE OIL ENGINE

For CUTTERS, SCHOONERS, FISHING BOATS, TUGS, Etc.
Especially Suitable as AUXILIARY ENGINES in Sailing Vessels

Economical
Reliable

Low Fuel
Consumption



Standard Sizes,
5-500 B. H. P.

250,000 B. H. P.
of SKANDIA
Engines Already in
Use all Over
the World

ALASKA AND NORTHWESTERN REPRESENTATIVES

SKANDIA ENGINEERING COMPANY *208 Grand Trunk Dock* Seattle

J. H. HANSEN & CO., Pacific Coast Agents, SAN FRANCISCO

GOLD SEAL
Crack Proof Boots
SEWARD SOLE

THE BEST and STRONGEST MANUFACTURED TO MEET THE DEMAND OF THE

FISHING TRADE

Stout's Patent Snagproof Boots

Stout's Patent 'Longshore Boots

ALL GENUINE GOLD SEAL CRACK PROOF BOOTS BEAR THIS HEEL IMPRINT AND OUR GOLD SEAL TRADE MARK ON LEG

Gold Seal and Badger Brands

OILED CLOTHING

For Sale by All Reliable Dealers

We Also Manufacture a Complete Line of

BELTING - PACKING - HOSE

NOTE
"Knee Patch"
"Reinforced Inside Knee Band"
"Reinforced Seward Sole"

GOODYEAR RUBBER CO.

SAN FRANCISCO, CAL.
587-589 Market St.
R. H. PEASE, President
J. A. SHEPARD, Vice-President

PORTLAND, ORE.
61-67 Fourth St.
C. F. RUNYON, Secretary
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TOWER'S TRADE FISH BRAND MARK

FOR MEN WHO WORK IN THE WET

TOWER'S TRADE FISH BRAND MARK

TOWER'S *FISH BRAND* WATERPROOF CLOTHING APRONS, SLEEVES and HATS

Fish Brand goods are made of the best materials. Sized big for comfort, strong at every point. In fact, made for men who give waterproof garments the very hardest wear.

For 80 years the greatest value in the Waterproof Clothing market.

SATISFACTION GUARANTEED

At Wholesale

Seattle. Northwestern Shoe Co. West Coast Rubber Co.

Portland. Fleischner, Meyer & Co. Hirsch-Weis Mfg. Co. C. R. Winslow & Co.

San Francisco. Ames, Harris, Neville Co. Buckingham & Hecht. Cahn, Nickelsburg & Co. Greenebaum, Weil & Michaels. Moore-Watson Dry Goods Co. New York Belting & Packing Co. O'Rourke, Eubanks Hat Co. Levi Strauss & Co. C. R. Winslow & Co.

Los Angeles. Cohn, Goldwater & Co. Wm. H. Hoegee Co. Klein-Norton Co. Norton Bros. & Morris

A. J. Tower Co.
BOSTON

Pacific Coast Branch
SAN FRANCISCO

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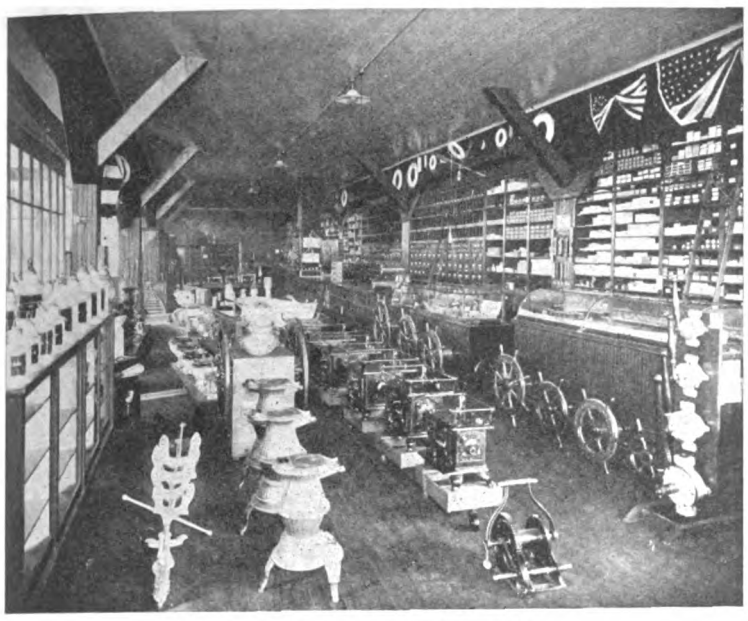
Largest Assortment of Fishing Supplies



OUR MARINE HARDWARE DEPARTMENT.

Most Complete Institution of Its Kind

Note Carefully Selected Lines from the World's Best Makers—

GOLD MEDAL COTTON TRAP AND SEINE NETTING

ROEBLING'S WIRE WEB

PLYMOUTH CORDAGE

"FRISCO" STANDARD

FERRO

and

FRISBIE

GAS ENGINES

PORTION OF OUR WAREHOUSE.

APEX TRAP CHAINS

WOOD TRAP CLEATS

CROWN OARS

APEX MAST AND TUNNEL HOOPS

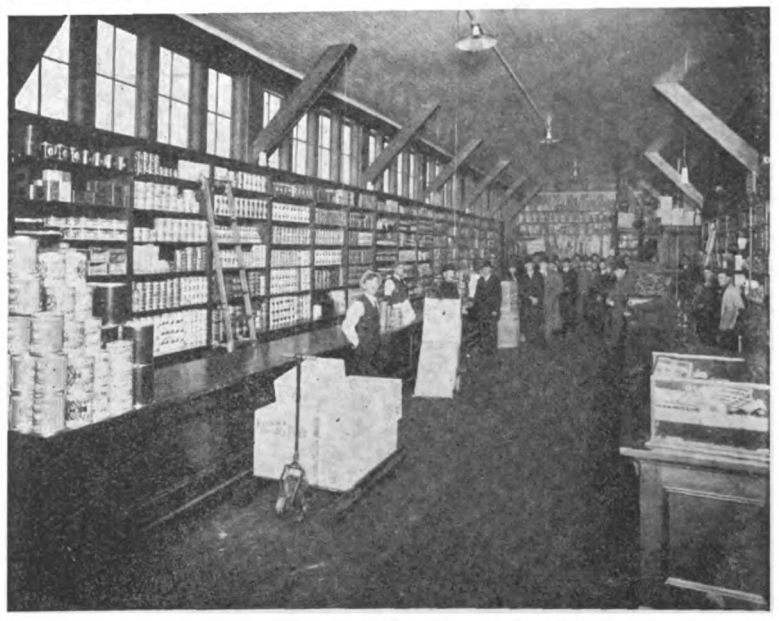
APEX HOG RINGERS

SOUTHWARK-HARRIS DIESEL ENGINES

HIRAM LOWELL SKIFFS AND DORIES

CAPE COD AND WOOLSEY'S COPPER PAINT

SHIPMATE STOVES



OUR SHIP STORES DEPARTMENT.

PACIFIC NET & TWINE CO. Pier 8 Seattle, U. S. A.

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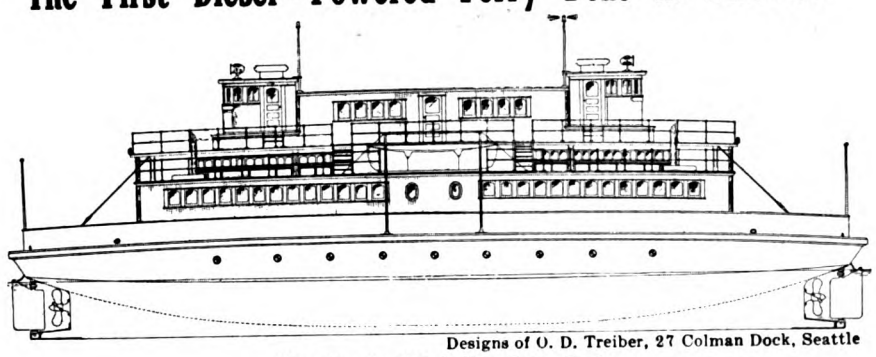
The King County Commissioners unamimously agreed that the

ATLAS TRUE DIESEL

was the best engine of all that were under consideration and accordingly placed orders for a six-cylinder 250 horse power Atlas True Diesel Engine for

The First Diesel-Powered Ferry Boat in America



Designs of O. D. Treiber, 27 Colman Dock, Seattle

King County (Wn.) New Ferry Boat

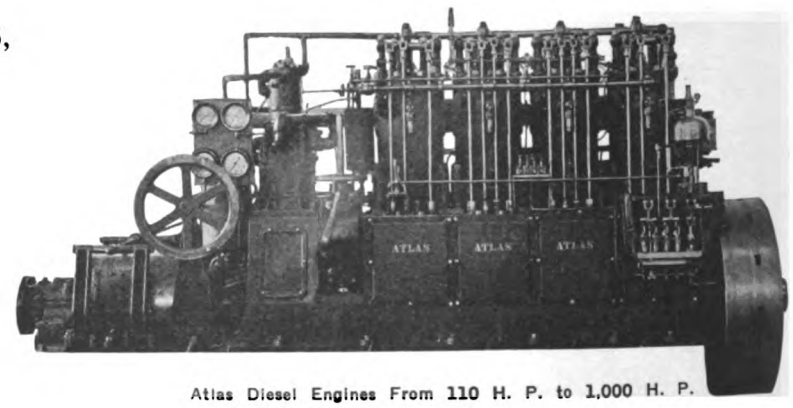
This is not the first time the manufacturers of the Atlas gas and Diesel principle engines have pointed the way by modernizing marine engine construction—It is generally conceded that the largest and most successful halibut boats plying the North Pacific and Behring Sea waters are equipped with

Atlas Gas Engines

The first seven high halibut boats, season 1915, were all Atlas Engined—

A still greater efficiency will follow the installation of

ATLAS DIESEL ENGINES



Atlas Diesel Engines From 110 H. P. to 1,000 H. P.

Atlas Gas Engine Company

Main Office and Factory:
OAKLAND, CALIFORNIA

REPRESENTATIVES:

SEATTLE, WASH.,—O. E. Nilsen, Northwest Sales Mgr., Office and Salesroom: 901 Western Ave., cor. Marion St.

Nome, Alaska—John J. Sesnon Co.
Ketchikan, Alaska—Ketchikan Iron Works.
Aberdeen, Wash.—Carl T. Nelson.
Astoria, Ore.—Atlas Gas Engine Agency, 509 Bond St.
Portland, Ore.—Bell Oil Co., 14 N. Front St.
Sacramento, Cal.—Nunes Bros., foot R St.
Stockton, Cal.—Stockton Iron Works.
Sydney, Australia—Atlas Oil Engine Co. 15 Market St.
New Orleans, La.—J. G. Davis, 1324 Music St.
Mexico City—Wm. Young & Co., La Calle de Gante No. 11.
Papeete, Tahiti—Emile Levy.
Honolulu, T. H.—Cotton, Neill & Co.

Mention Motorship.

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"Asphalt-base" best: in theory and practice

U. S. Gov. experts report that oils made from asphalt-base crude **"distill without decomposition" (do not break up and lose their lubricating value under cylinder heat), and "are much better adapted to motor cylinders, as far as their carbon-forming proclivities are concerned, than paraffine-base Pennsylvania oils."**

The following extracts of letters from Pacific Coast motor boat owners show the practical experience of all those who use

ZEROLENE

the Standard Oil for Motor Boats

"I find this the best oil I have ever used. Have no carbon trouble"

"I changed to Zerolene in the middle of the heat and got ten more revolutions"

"We find that a large number of our fishermen prefer this oil and are using it exclusively. Out of 26 men interviewed, 24 were in favor of Zerolene."

"Made 5000 miles last year, making two trips to Alaska and return. Practically no carbon, and the cylinder rings and walls were in perfect condition."

(Names furnished on request)

Next time you empty your crank-case, refill with Zerolene. Dealers everywhere and at our waterfront Service Stations. See list below. Copy of address on Motor-Cylinder Lubrication before the American Society of Naval Engineers, by Lieut. Bryan, U. S. N., will be sent on request.

Standard Oil Company
(California)

Standard Waterfront Service Stations

ALASKA

Juneau
Ketchikan
* Nome
Petersburg
Wrangell
Waterfall
Sitka

OREGON

Astoria
Bandon
* Hood River
Marshfield
Portland
* The Dalles
Tillamook
Yaquina
* Klamath Falls

HAWAII

* Honolulu
* Kahului
* Port Allen

WASHINGTON

Aberdeen
Anacortes
Ballard
Bellingham
* Blaine
Bremerton
Everett
Friday Harbor
Gig Harbor
Kanaka Bay
Lake Washington
Nellita
Olympia
Point Wells
Port Angeles
Port Townsend
Port Orchard
Potlatch
Poulsbo
Richardson
Seattle
Shelton
South Bend
Tacoma
* Vancouver

CALIFORNIA

Eureka
* Grimes
* Half Moon Bay
Jersey Island
Knights Landing
Long Beach (Barge)
Martinez
* Marysville
* Monterey
Napa
* Oakland
* Oceanside
* Petaluma
Pittsburg Landing
* Princeton
* Red Bluff
Rio Vista
Sacramento
San Diego
* San Francisco
San Pedro
* San Rafael
* Santa Barbara
* Santa Cruz
* Santa Monica
Sausalito
Stockton
* Suisun
* Vallejo
* Ventura
Walnut Grove

Boats are supplied direct from our own docks except at points marked *. At these places we deliver promptly at any convenient place along the waterfront.

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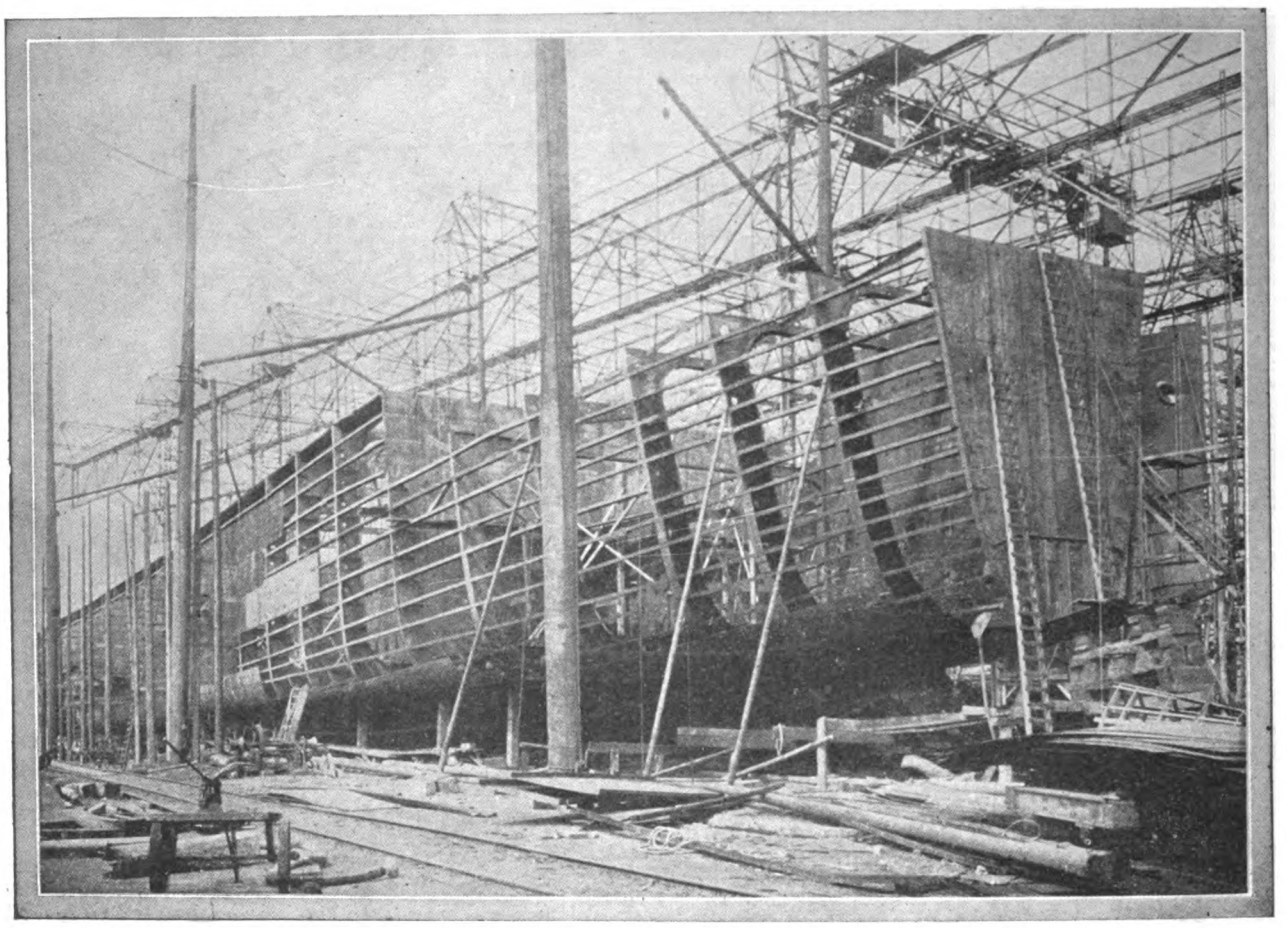
"ISHERWOOD SYSTEM OF SHIP CONSTRUCTION"

Suitable for All Types of Vessels

Specially Advantageous for Oil Steamers



Increased Strength. Increased Capacity for Bale Goods. Increased D. W. Carrying Capacity. Improved Ventilation. Reduced Cost of Maintenance. Reduced Vibration. 500 vessels representing about 3,650,000 tons dead weight carrying capacity. 205 Bulk Oil Carriers representing about 1,886,000 tons dead weight carrying capacity.

FOR PARTICULARS APPLY TO

Telephone—
1064 Avenue

J. W. ISHERWOOD

Telegraphic Address—
"Ishercon"

4, LLOYD'S AVENUE, LONDON, E. C.
or to S. C. CHAMBERS & CO., 3 KING STREET, LIVERPOOL

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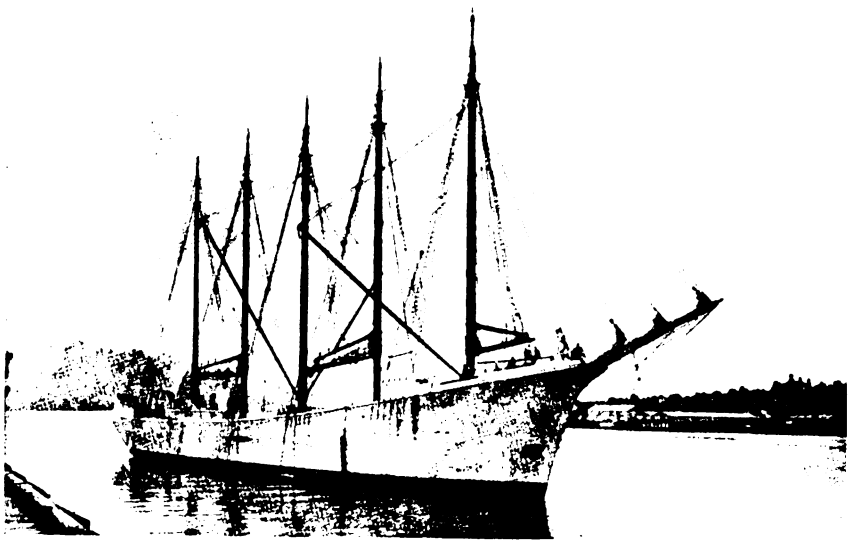
BOLINDER'S



DIRECT REVERSIBLE BOLINDER ENGINES

The "City of Portland" is the largest single decked, wooden sea-going auxiliary vessel in the world---cargo capacity over 2,000,000 feet of lumber---speed, loaded, seven and one-half knots. The initial success of this vessel marks the beginning of a new era in Pacific Coast shipping.

HENRY LUND & CO.

SEATTLE: 220 Grand Trunk Dock

SAN FRANCISCO: Marine Building

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UNION
28 YEARS OF
ENGINEERING SUCCESS

The safety, as well as the livelihood, of the deep-sea fisherman depends upon the reliability of his engine.

Last season, UNION engines outnumbered by far all other makes on the great fishing grounds off Southern California.

These sales were not made by cut prices, but in spite of them; a case of quality vs. price.

Union Gas Engine Co.

24 California St.
SAN FRANCISCO

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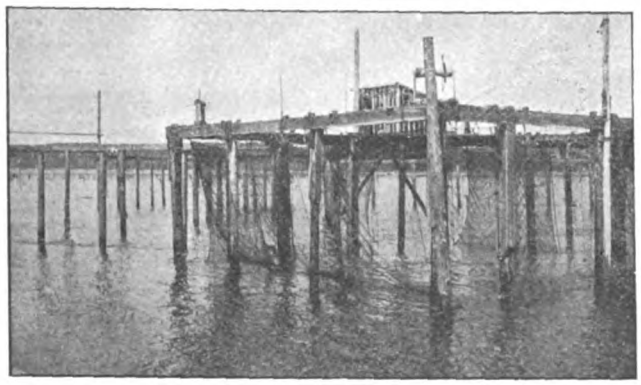
TRAPS THAT DEFY TIME



CREOSOTED PILING

QUICKLY save added costs in long life and elimination of redriving expense. Where the ordinary pile may not last out the year a creosoted pile will last fifteen years or more. Modern creosoting processes maintain full strength of the wood.

Our Engineering Department is at your service

PACIFIC CREOSOTING CO.
NORTHERN LIFE BUILDING
SEATTLE

IF YOU KNOW THE RECORD

of the successful operation of the

Cannery Tenders
"Warrior" and "Chomly"

you do not need to be told the

NLSECO DIESEL

supremacy as a power for
CANNERY AND FISHING VESSELS

NEW LONDON SHIP & ENGINE CO.

Works
Groton
Conn.

PACIFIC COAST OFFICE:
L. C. SMITH BUILDING
SEATTLE, U. S. A.

WERKSPOOR

AMSTERDAM **HOLLAND**

Name of Ships—	Owners—	Deadweight Capacity Tons.	Horse-power.
San Antonio	A. Hammerstein	500	215
Cornelis	J. Van Rompu	600	265
*Vulcanus	Anglo-Saxon Pet. Co.	1,000	500
Sembilan	Royal Packet Co.	300	265
Juno	Anglo-Saxon Pet. Co.	2,675	1,360
Emanuel Nobel	Royal Shell Interests	6,500	2,750
Loudon	Royal Packet Co.	1,750	1,360
Artemis	Anglo-Saxon Pet. Co.	5,050	2,300
Ares	Anglo-Saxon Pet. Co.	5,050	2,300
Selene	Anglo-Saxon Pet. Co.	5,050	2,300
Hermes	Anglo-Saxon Pet. Co.	5,050	2,300
Erbruz	Royal Shell Interests	6,500	2,750
Jules Henry	A. Vimont	2,000	1,360
Poseidon	Anglo-Saxon Pet. Co.	800	450
Myer (Mijer)	Royal Packet Co.	1,750	1,360
Siberg	Royal Packet Co.	1,750	1,360
Utrecht	Anglo-Saxon Pet. Co.	1,500	800
Lara	Anglo-Saxon Pet. Co.	875	650
Bengkalis	Royal Packet Co.	900	650
Poelongan	Royal Packet Co.	900	650
Sebastian	Lane & McAndrew	4,500	2,300
No. 17	Dutch Colonies Gov't	1,000	900
No. 22	Dutch Colonies Gov't	1,000	900
Hestia	Anglo-Saxon Petroleum Co.	875	650

ALL THE ABOVE SHIPS ARE PROPELLED BY DIESEL-TYPE CRUDE OIL ENGINES BUILT AT THE WERKSPOOR WORKS, AMSTERDAM, HOLLAND; THUS WERKSPOOR LEADS IN EXPERIENCE

*First full-powered ocean-going Diesel-driven ship.—Built in 1910

Pacific Coast Constructional License, or Licenses, Available

Constructional Rights Already Have Been Purchased by

THE NEW YORK SHIPBUILDING COMPANY
and by the
NEWPORT NEWS SHIPBUILDING & DRY DOCK CO.

DIESEL TYPE ENGINES

Information From the New York Office of Werkspoor

'Phone 5793 Broad Room 218, 44 Whitehall Street, New York City

Wisconsin CONSISTENT Motors

Unequaled for power, speed, economy and consistent performance. Write for catalog of different sizes and types in four, six and eight cylinders.

WISCONSIN MOTOR MFG. CO.

Sta. A-Dept. 305 MILWAUKEE, WIS.

PACIFIC COAST DISTRIBUTORS:
EARL P. COOPER CO., 1428 Bush St., San Francisco, Cal.
W. F. McKENNEY, 68 First St. Portland, Ore.
CHANDLER, DUNLAP CO. Seattle, Wash.

OPEN EXHAUST

Devoted to Boating

"IN THE HEART OF AMERICA"

The only motor boating magazine covering the Middle West or Mississippi Valley Region.

A "Motor Dope" department worth dollars in every issue. Subscription price $1.00 per year. Canadian and foreign, $1.50.

Open Exhaust, La Crosse, Wis., U. S. A.

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THE SOUTHWARK-HARRIS VALVELESS ENGINE DIESEL PRINCIPLE

Characterized by an eminent European Diesel Engine Authority after careful inspection as

"The Simplified Diesel"

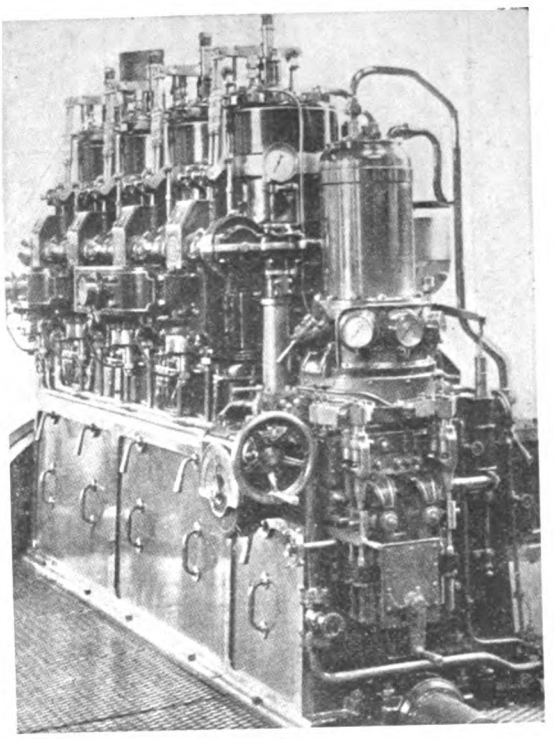
Built in Sizes 120 to 2000 I. H. P.

All Trouble-Making Valves Have Been Eliminated

Entire Control Centralized in One Hand Wheel

From Stone Cold to Full Power In 10 Seconds

Directly Reversible "Full Ahead" to "Full Astern" in 5 Seconds.



Now to Be Built at

SAN FRANCISCO

by the

Standard Gas Engine Co.

The Standard Gas Engine Company, of San Francisco, announce that they have arranged with the Southwark Foundry & Machine Co. of Philadelphia, manufacturers of the Southwark-Harris Valveless Heavy Oil engine, to build these engines on the Pacific Coast, and that as a result of this arrangement they are now booking orders for Southwark-Harris Diesel type motors for delivery in the spring of the ensuing year.

To Insure Delivery Order Now

Good Fittings at Least Cost

We devote 150,000 sq. ft. of floor space to the making of good fittings. Our big output enables us to do the best work, with the best materials, **at reasonable cost.**

Strength is never sacrificed for cheapness, however. That is why our Deck Fittings, Stern Bearings, Stuffing Boxes, Spark and Throttle Controls, Steering Wheels, give **the longest and most economical service.**

MARINE HARDWARE

The quality in goods has proved equal to the hardest tests for 69 years.

For Sale by all Pacific Coast Jobbers.

WRITE FOR BOOK

Our new 112-page book is full of valuable information for boat owners. Contains tables and data for everyday use. Write for your copy now.

The mark of QUALITY on Marine Hardware

TRAWL ANCHORS
Designed for Pacific Coast Use

WILCOX, CRITTENDEN & CO., Inc.
Established 1847
20 South Main St., Middletown, Conn.
World's Largest Manufacturers of
MARINE HARDWARE
Manufacturers of the Famous MARINE Silencer for Motor Boats

Iron Bark

is the most durable wood in existence and is specified by naval architects for all surfaces subject to unusual strains and heavy service. For sheathing and guards it has no equal. Our stock of Iron Bark is carefully selected from the finest grown. It is of a uniformly high grade. Safeguard your own interests by getting our quotations.

WRITE THE

Ehrlich-Harrison Co.

HARDWOOD SPECIALISTS

Railroad Ave. and Connecticut St., Seattle

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Have a

SHIPMATE

and be

Comfortable

Made by

THE STAMFORD FOUNDRY COMPANY

Established 1830 Stamford, Conn.

PACIFIC COAST AGENCIES

HOLBROOK, MERRILL & STETSON, Sixth, Bluxome & Townsend Sts., San Francisco, Cal.
PACIFIC NET & TWINE COMPANY, Pier 8, Seattle, Washington.
F. W. ISHERWOOD, 17th and Upshur Streets, Portland, Oregon.
THE CANADIAN FAIRBANKS-MORSE COMPANY, 798 Beatty St., Vancouver, B. C.

Even in units of the largest size the M. & W. engine requires the attention of only one man, and that only a portion of the time.

After getting under way he need never go near the engine until he gets a signal from the bridge, except to see that the lubricator reservoir is filled and the fuel tank supplied.

If you are operating a steam plant you are paying the wages of one or two stokers, an engineer and perhaps an oiler and coal passer. For a plant of precisely the same power output you can reduce the payroll to the minimum.

The many valuable advantages of M. & W. engine over any other type of prime mover are interestingly described in our Bulletin M-21 which will be sent upon request. Ask us to send it, and at the same time tell us how much power you need and the service for which you need it—our engineers will gladly cooperate with you in selecting precisely the type and size of M. & W. outfit that will solve your power problem.

AUGUST MIETZ MACHINE WORKS

128 MOTT STREET, NEW YORK

(71-14)

Plymouth Will Satisfy You

When the sails are drawing and the ship is bowling along at a good clip, there's great satisfaction in having rope aboard that you can be proud of.

Partly because it's as natural for you to want to take pride in such things as it is for the owner of a trim yacht. Partly because the factors which give a rope good appearance likewise give it the other qualities you must have in your rigging—strength, durability and flexibility.

You'll find all these qualities present in Plymouth Rope to a degree that is true of no other rope.

Use Plymouth for every need and you'll find your accidents and costs going down and your pride going up.

PLYMOUTH CORDAGE COMPANY

NO. PLYMOUTH, MASS. WELLAND, ONT.

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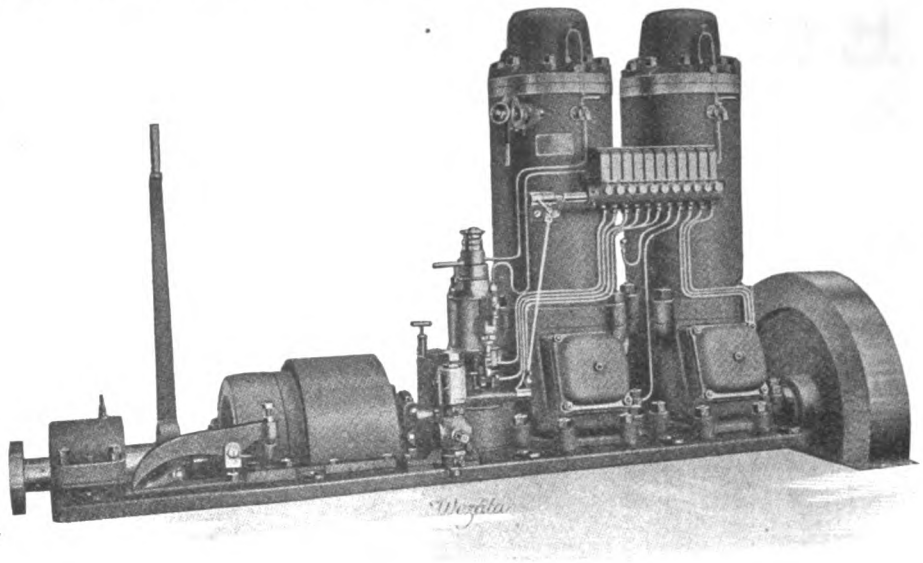
SKANDIA SEMI-DIESEL CRUDE OIL ENGINE

For CUTTERS, SCHOONERS, FISHING BOATS, TUGS, Etc.
Especially Suitable as AUXILIARY ENGINES in Sailing Vessels

Economical
Reliable

Low Fuel
Consumption



Standard Sizes,
5-500 B. H. P.

250,000 B. H. P.
of SKANDIA
Engines Already in
Use all Over
the World

ALASKA AND NORTHWESTERN REPRESENTATIVES

SKANDIA ENGINEERING COMPANY *208 Grand Trunk Dock* Seattle

J. H. HANSEN & CO., Pacific Coast Agents, SAN FRANCISCO

GOLD SEAL
Crack Proof Boots
SEWARD SOLE

THE BEST and STRONGEST MANUFACTURED TO MEET THE DEMAND OF THE

FISHING TRADE

Stout's Patent Snagproof Boots

Stout's Patent 'Longshore Boots

ALL GENUINE GOLD SEAL CRACK PROOF BOOTS BEAR THIS HEEL IMPRINT AND OUR GOLD SEAL TRADE MARK ON LEG

Gold Seal and Badger Brands

OILED CLOTHING

For Sale by All Reliable Dealers

We Also Manufacture a Complete Line of

BELTING - PACKING - HOSE

NOTE
"Knee Patch"
"Reinforced Inside Knee Band"
"Reinforced Seward Sole"

GOODYEAR RUBBER CO.

SAN FRANCISCO, CAL.
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PORTLAND, ORE.
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TOWER'S TRADE FISH BRAND MARK

FOR MEN WHO WORK IN THE WET

TOWER'S TRADE FISH BRAND MARK

TOWER'S *FISH BRAND* WATERPROOF CLOTHING APRONS, SLEEVES and HATS

Fish Brand goods are made of the best materials. Sized big for comfort, strong at every point. In fact, made for men who give waterproof garments the very hardest wear.

For 80 years the greatest value in the Waterproof Clothing market.

SATISFACTION GUARANTEED

At Wholesale

Seattle. Northwestern Shoe Co. West Coast Rubber Co.

Portland. Fleischner, Meyer & Co. Hirsch-Weis Mfg. Co. C. R. Winslow & Co.

San Francisco. Ames, Harris, Neville Co. Buckingham & Hecht. Cahn, Nickelsburg & Co. Greenebaum, Weil & Michaels. Moore-Watson Dry Goods Co. New York Belting & Packing Co. O'Rourke, Eubanks Hat Co. Levi Strauss & Co. C. R. Winslow & Co.

Los Angeles. Cohn, Goldwater & Co. Wm. H. Hoegee Co. Klein-Norton Co. Norton Bros. & Morris

A. J. Tower Co.
BOSTON
Pacific Coast Branch
SAN FRANCISCO

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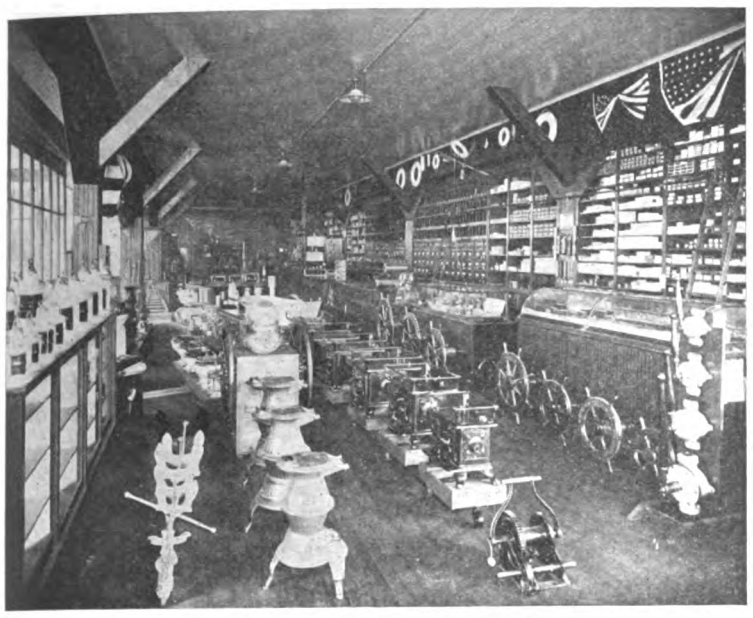
Largest Assortment of Fishing Supplies



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Most Complete Institution of Its Kind

Note Carefully Selected Lines from the World's Best Makers—

GOLD MEDAL COTTON TRAP AND SEINE NETTING

ROEBLING'S WIRE WEB

PLYMOUTH CORDAGE

"FRISCO" STANDARD

FERRO

and

FRISBIE

GAS ENGINES

PORTION OF OUR WAREHOUSE.

APEX TRAP CHAINS

WOOD TRAP CLEATS

CROWN OARS

APEX MAST AND TUNNEL HOOPS

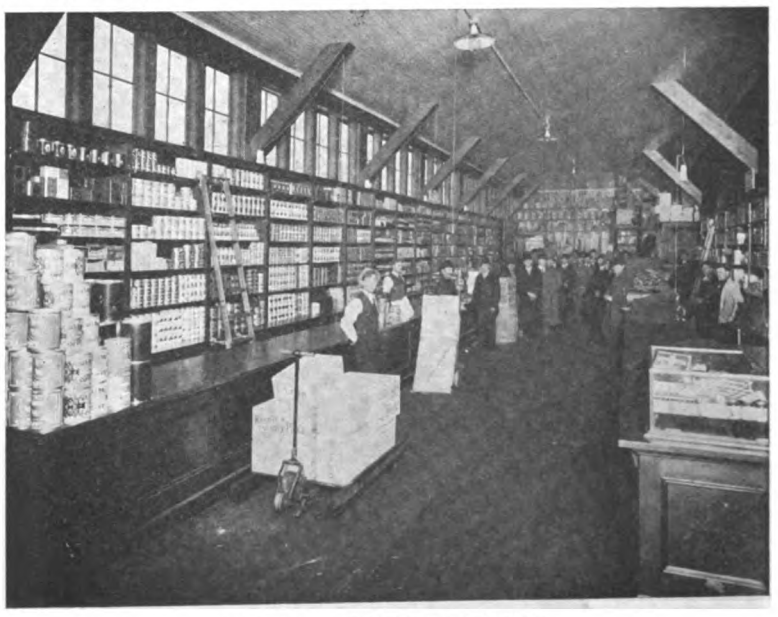
APEX HOG RINGERS

SOUTHWARK-HARRIS DIESEL ENGINES

HIRAM LOWELL SKIFFS AND DORIES

CAPE COD AND WOOLSEY'S COPPER PAINT

SHIPMATE STOVES



OUR SHIP STORES DEPARTMENT.

PACIFIC NET & TWINE CO. Pier 8 Seattle, U.S.A.

Mention Motorship.

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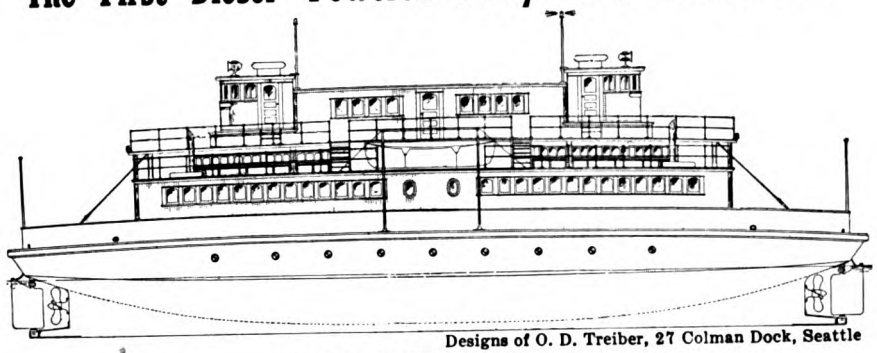
The King County Commissioners unanimously agreed that the

ATLAS TRUE DIESEL

was the best engine of all that were under consideration and accordingly placed orders for a six-cylinder 250 horse power Atlas True Diesel Engine for

The First Diesel-Powered Ferry Boat in America



Designs of O. D. Treiber, 27 Colman Dock, Seattle
King County (Wn.) New Ferry Boat

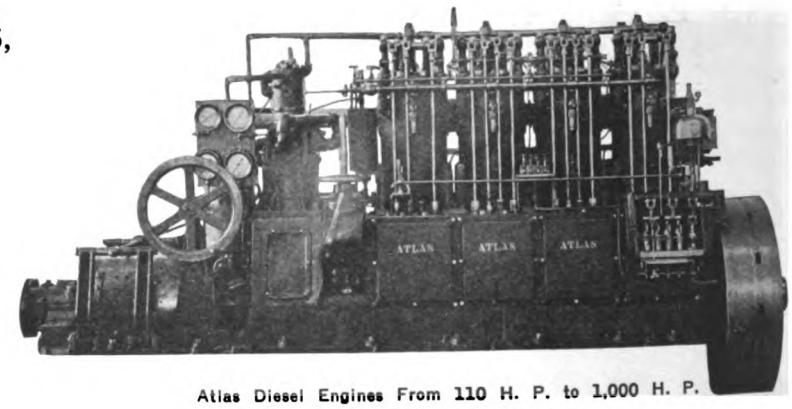
This is not the first time the manufacturers of the Atlas gas and Diesel principle engines have pointed the way by modernizing marine engine construction—It is generally conceded that the largest and most successful halibut boats plying the North Pacific and Behring Sea waters are equipped with

Atlas Gas Engines

The first seven high halibut boats, season 1915, were all Atlas Engined—

A still greater efficiency will follow the installation of

ATLAS DIESEL ENGINES



Atlas Diesel Engines From 110 H. P. to 1,000 H. P.

Atlas Gas Engine Company

Main Office and Factory:
OAKLAND, CALIFORNIA

REPRESENTATIVES:

SEATTLE, WASH.,—O. E. Nilsen, Northwest Sales Mgr., Office and Salesroom: 901 Western Ave., cor. Marion St.

Nome, Alaska—John J. Sesnon Co.
Ketchikan, Alaska—Ketchikan Iron Works.
Aberdeen, Wash.—Carl T. Nelson.
Astoria, Ore.—Atlas Gas Engine Agency, 509 Bond St.
Portland, Ore.—Bell Oil Co., 14 N. Front St.
Sacramento, Cal.—Nunes Bros., foot R St.
Stockton, Cal.—Stockton Iron Works.
Sydney, Australia—Atlas Oil Engine Co. 15 Market St.
New Orleans, La.—J. G. Davis, 1324 Music St.
Mexico City—Wm. Young & Co., La Calle de Gante No. 11.
Papeete, Tahiti—Emile Levy.
Honolulu, T. H.—Cotton, Neill & Co

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Experts Say: "Asphalt-Base"

Engineers of the Packard Automobile Company, Lieutenant Bryan, U. S. N., a Government expert, and other authorities, declare that motor oil made from Western crude gives best results.

The majority of Pacific Coast motor boat and motor car owners have known this for years. They are using Zerolene in preference to any other oil because they have found it highest in lubricating efficiency.

But the crude can't do it all. Standard refining methods—the result of more than forty years experience—are largely responsible for the superior lubrication Zerolene gives your motor.

Zerolene—made from asphalt-base, selected California petroleum—won highest competitive awards at both Expositions.

ZEROLENE

The Standard Oil for Motor Boats

The convenient location of our many waterfront service stations makes it easy for you to always get Zerolene oils and greases, Standard engine distillate and Red Crown gasoline. See list below.

STANDARD WATERFRONT STATIONS

WASHINGTON

Aberdeen
Anacortes
Ballard
Bellingham
*Blaine
Bremerton
Everett
Friday Harbor
Gig Harbor
Kanaka Bay
Lake Washington
Nellita
Olympia
Point Wells
Port Angeles
Port Townsend
Port Orchard
Potlatch
Poulsbo
Richardson
Seattle
Shelton
South Bend
Tacoma
*Vancouver

CALIFORNIA

Eureka
*Grimes
*Half Moon Bay
Jersey Island
Knights Landing
Martinez
Long Beach (Barge)
*Marysville
*Monterey
Napa
*Oakland
*Oceanside
*Petaluma
Pittsburg Landing
*Princeton
*Red Bluff
Rio Vista
Sacramento
San Diego
*San Francisco
San Pedro
*San Rafael
*Santa Barbara
*Santa Cruz
*Santa Monica
Stockton
Sausalito
*Suisun
*Vallejo
*Ventura
Walnut Grove

HAWAII

*Honolulu
*Kahului
*Port Allen

ALASKA

Juneau
Ketchikan
*Nome
Petersburg
Wrangell
Waterfall
Sitka

OREGON

Astoria
Bandon
*Hood River
Portland
Marshfield
*The Dalles
Tillamook
Yaquina
*Klamath Falls

Boats are supplied direct from our own docks, except at points marked *. At these places we deliver promptly at any convenient place along the waterfront.

Standard Oil Company

(California)

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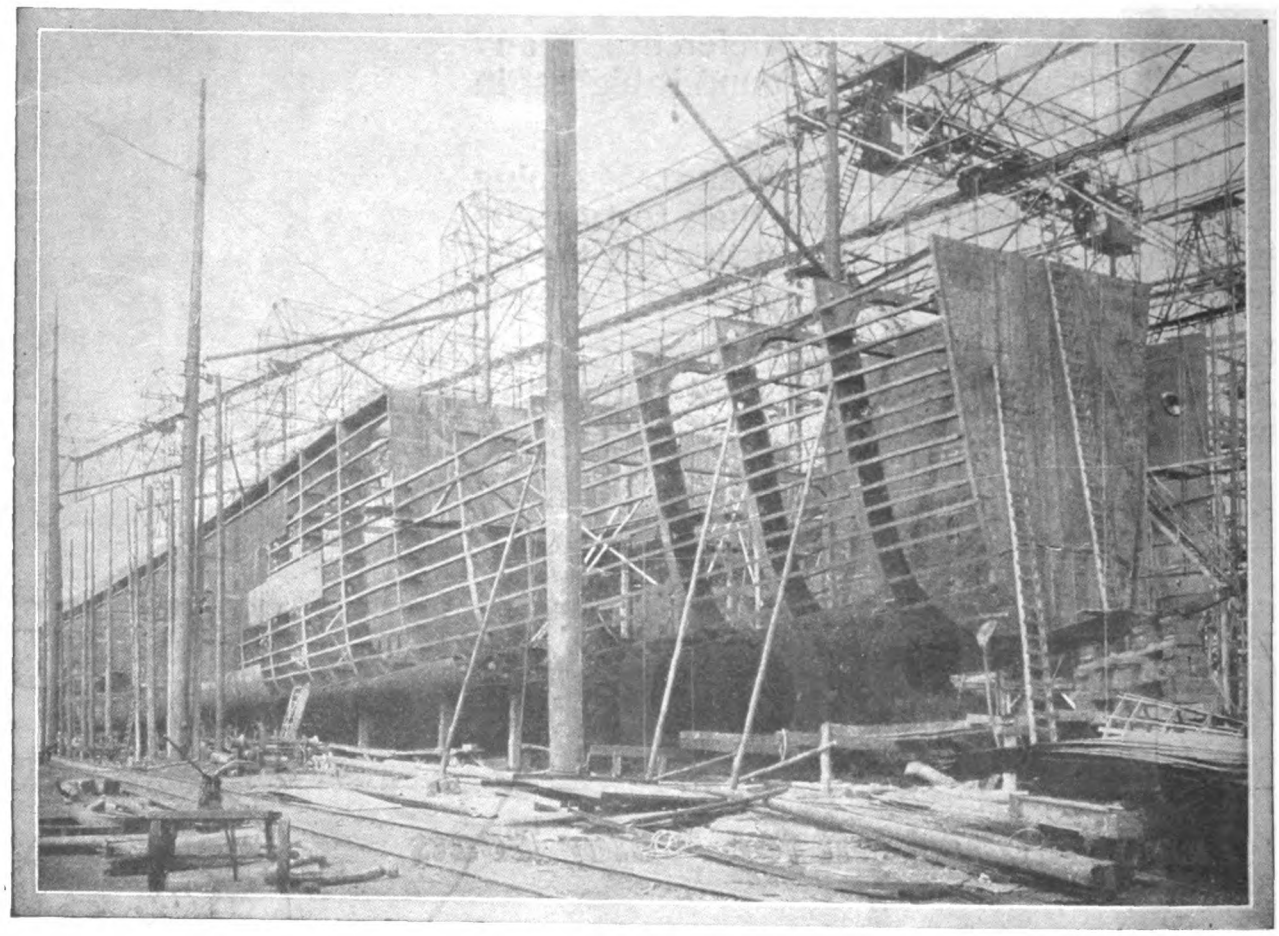
Suitable for All Types of Vessels

Specially Advantageous for Oil Steamers



Increased Strength. Increased Capacity for Bale Goods. Increased D. W. Carrying Capacity. Improved Ventilation. Reduced Cost of Maintenance. Reduced Vibration. 500 vessels representing about 3,650,000 tons dead weight carrying capacity. 205 Bulk Oil Carriers representing about 1,886,000 tons dead weight carrying capacity.

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J. W. ISHERWOOD

Telegraphic Address—
"Ishercon"

4, LLOYD'S AVENUE, LONDON, E. C.
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BOLINDER'S

BOLINDER'S U.S.A. INSTALLATIONS

Name—	Type of Vessel	Dimensions Length	Breadth	Depth	Tons D. W.	Power B. H. P.	Speed Knots
Bldg. B'more (Vacuum Oil Co.)	Tanker	306	47	28	4500	1650	11
"	"	306	47	28	4500	1650	11
"	"	306	47	28	4500	1650	11
"	"	306	47	28	4500	1650	11
Chas. R. McCormick	Schooner	276	48	21	3500	640	8½
"	"	276	48	21	3500	640	8½
"	"	276	48	21	3500	640	8½
Manitowoc Shipbldg Co	Schooner	261	40-6	23	3000	640	9
"	"	261	40-6	23	3000	640	9
A. O. Andersen & Co., N. Y.	Schooner	246	44	22	2600	640	9
"	"	246	44	22	2600	640	9
The Texas Co.	Schooner	259-5	45-3	22-9	3500	640	8½
E. K. Wood Lumber Co.	Schooner	210	42	15	1800	640	9¼
C. & O. Lumber Co.	Schooner	175	42-6	18		640	
W. R. Grace & Co.	Bark					640	
"	"					640	
A. O. Andersen & Co., N. Y.	Schooner	192	41-3	21	1500	480	8½
Standard Oil Co.	Schooner	261	43	23-6	3200	320	7
"	"	261	43	23-6	3200	320	7
"	"	261	43	23-6	3200	320	7
"	"	261	43	23-6	3200	320	7
"	"	261	43	23-6	3200	320	7
"	"	261	43	23-6	3200	320	7
Standard Transp. Co.	Tanker	197-3	35	14-4	1600	320	7½
Pendleton Bros.	Schooner	255	43	22-6	3000	320	
"	"					320	
Andrew Mahoney	Schooner	225	43	20-3	2700	320	6¾
"	"	225	43	20-3	2700	320	6¾
"	"	225	43	20-3	2700	320	6¾
Taylor Engineering Co.	Schooner	225	44	23	2250	320	7
"	"	225	44	23	2250	320	7
"	"	225	44	23	2250	320	7
"	"	225	44	23	2250	320	7
"	"	225	44	23	2250	320	7
"	"	225	44	23	2250	320	7
"	"	225	44	23	2250	320	7
"	"	225	44	23	2250	320	7
Matson Navigation Co	Schooner	212	34	21-6	1700	320	8
R. P. Rithett	Bark	206	38	19	1850	320	7½
Shell Oil Co.	Tanker	211	34	19-6	1800	320	7¼
W. R. Grace & Co.	Schooner	170	38-8	9-8	800	320	8½
W. & S. Job & Co.	Schooner	210	40	19	2100	320	7½
J. B. King & Co.	Barge	220-7	35	21	1900	320	7
"	"	220-7	35	21	1900	320	7
"	"	220-7	35	21	1900	320	7
"	"	220-7	35	21	1900	320	7
"Carmela"	Bark	262	37-6	22	2200	320	7
Chas. R. McCormick	Schooner	230	44	19		320	
R. Lawrence Smith, N. Y.	Schooner	236	40	19	2000	320	7
Pacific Commercial Co.						320	
Honolulu Iron Works		124	25	9		240	
W. & S. Job & Co.	Schooner	153-8	28-3	12-4	550	160	7
Borden & Lane	Schooner	138	32	13	600	160	7¾
"Marie L. Hanlon"	Tug	71-5	17-8	7-5		160	9¾
"A. I. West"	Schooner	161	40	11-6	1050	160	6
"Eclipse"	Schooner	104	27	14	500	160	7¾
"Pilar"	Schooner	148	32		850	160	6½
"Gracie S."	Pilot	83	24-7	10-2		120	9
W. & S. Job & Co.	Schooner	122-5	24	13	400	100	6½
"Gilbert Islands"	Schooner	125	31	11-9	650	100	6
"Chiriqui"	Schooner	110	24	8	200	100	6½
"Ocmulgee"	Riverboat	120	24	5	90	100	8¾
F. A. Scharberg	Riverboat	97	19-6	8		100	

Total B. H. P. Marine Engines.....27.140

In addition to above OVER 10,000 B. H. P. stationary and smaller marine engines installed throughout U. S. A.

SEATTLE **HENRY LUND & CO.** SAN FRANCISCO

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The safety, as well as the livelihood, of the deep-sea fisherman, depends upon the reliability of his engine. Last season, Union Engines outnumbered by far all other makes on the great fishing grounds off Southern California. These sales were not made by cut prices, but in spite of them; a case of quality vs. price.

UNION GAS ENGINE CO.

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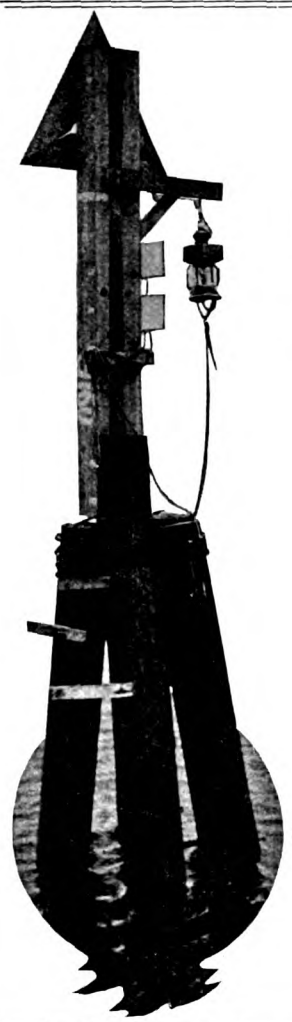
Everlasting For Dolphins



And for all other similar marine uses.

Creosoted PILING

Treated by the modern scientific method without impairment of strength, at one of the world's largest creosoting plants.

Pacific Creosoting Company

NORTHERN BANK BUILDING
SEATTLE

WERKSPOOR

AMSTERDAM **HOLLAND**

Name of Ships—	Owners—	Deadweight Capacity Tons.	Horse-power.
San Antonio	A. Hammerstein	500	215
Cornelis	J. Van Rompu	600	265
*Vulcanus	Anglo-Saxon Pet. Co.	1,000	500
Sembilan	Royal Packet Co.	300	265
Juno	Anglo-Saxon Pet. Co.	2,675	1,360
Emanuel Nobel	Royal Shell Interests	6,500	2,750
Loudon	Royal Packet Co.	1,750	1,360
Artemis	Anglo-Saxon Pet. Co.	5,050	2,300
Ares	Anglo-Saxon Pet. Co.	5,050	2,300
Selene	Anglo-Saxon Pet. Co.	5,050	2,300
Hermes	Anglo-Saxon Pet. Co.	5,050	2,300
Erbruz	Royal Shell Interests	6,500	2,750
Jules Henry	A. Vimont	2,000	1,360
Poseidon	Anglo-Saxon Pet. Co.	800	450
Myer (Mijer)	Royal Packet Co.	1,750	1,360
Siberg	Royal Packet Co.	1,750	1,360
Utrecht	Anglo-Saxon Pet. Co.	1,500	800
Lara	Anglo-Saxon Pet. Co.	875	650
Bengkalis	Royal Packet Co.	900	650
Boelongan	Royal Packet Co.	900	650
Sebastian	Lane & McAndrew	4,500	2,300
No. 17	Dutch Colonies Gov't	1,000	900
No. 22	Dutch Colonies Gov't	1,000	900
Hestia	Anglo-Saxon Petroleum Co.	875	650

ALL THE ABOVE SHIPS ARE PROPELLED BY DIESEL-TYPE CRUDE OIL ENGINES BUILT AT THE WERKSPOOR WORKS, AMSTERDAM, HOLLAND; THUS WERKSPOOR LEADS IN EXPERIENCE

*First full-powered ocean-going Diesel-driven ship.—Built in 1910

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THE NEW YORK SHIPBUILDING COMPANY

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'Phone 5793 Broad Room 218, 44 Whitehall Street, New York City

We have for immediate delivery
One 120 B. H. P.

NLSECO DIESEL ENGINE

Same Design and Model as the Very Successful NLSECO in the

CANNERY TENDER
"CHOMLY"

Engine is in Seattle and can be seen on application to

NEW LONDON SHIP AND ENGINE CO.

WORKS,
GROTON, CONN.

1907 L. C. SMITH BLDG.
SEATTLE, WASH.

Wisconsin CONSISTENT Motors

Unequaled for power, speed, economy and consistent performance. Write for catalog of different sizes and types in four, six and eight cylinders.

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Sta. A-Dept. 305 MILWAUKEE, WIS.

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Seattle, Wash.

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Open Exhaust, La Crosse, Wis., U. S. A.

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her arrival will mean a whole lot more to you in *actual dollars and cents*—if she's REMINGTON engined. Don't take our word for it—ask your Engineer to find out. He will tell you that the

Remington Oil Engine

is **the biggest oil engine value** in America—that she's **the greatest money saver** ever put in a boat, because she's without an equal for simplicity. The REMINGTON isn't an experiment—there are 2500 REMINGTONS in use. She's a great engine and a safe "Buy" for you. **Want to see us?**

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PORT BLAKELEY

"INCA"

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Constructing Wooden Ships
From Douglas Fir

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Directorate Well Known Portlanders

Experienced Management

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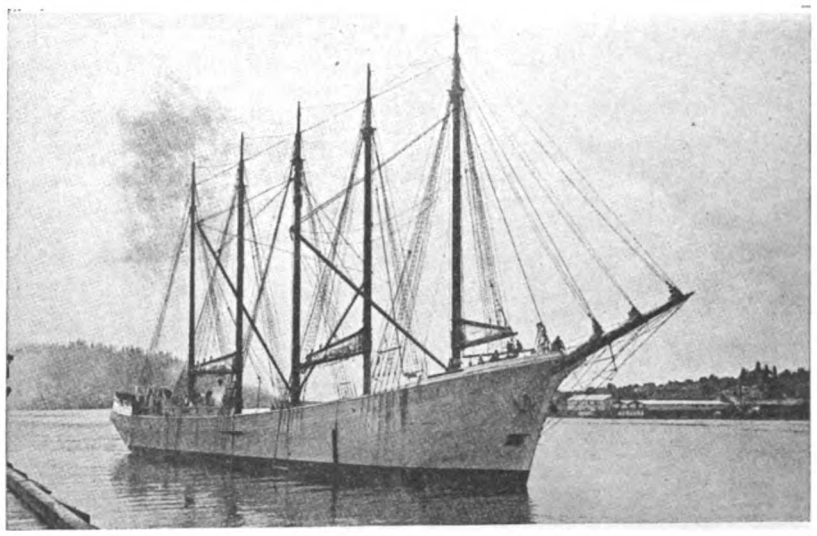

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Chas. R. McCormick Co.

800 Fife Building **SAN FRANCISCO**

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All Trouble-Making Valves Have Been Eliminated

Entire Control Centralized in One Hand Wheel

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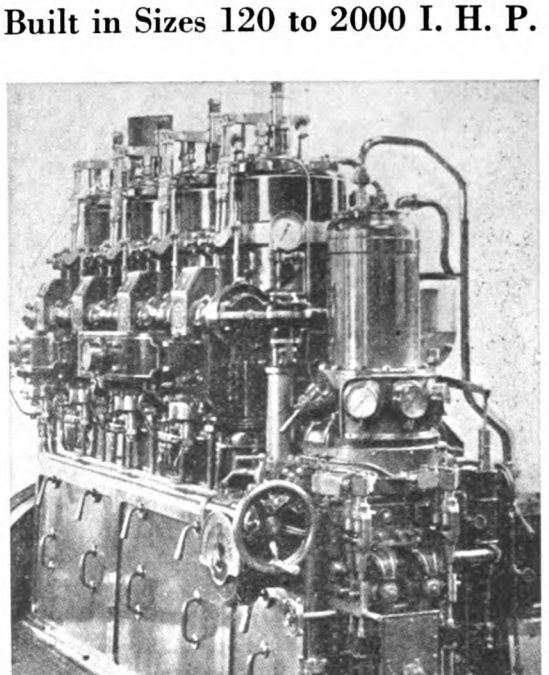
Directly Reversible "Full Ahead" to "Full Astern" in 5 Seconds.



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SAN FRANCISCO

by the

Standard Gas Engine Co.

The Standard Gas Engine Company, of San Francisco, announce that they have arranged with the Southwark Foundry & Machine Co. of Philadelphia, manufacturers of the Southwark-Harris Valveless Heavy Oil engine, to build these engines on the Pacific Coast, and that as a result of this arrangement they are now booking orders for Southwark-Harris Diesel type motors for delivery in the spring of the ensuing year.

To Insure Delivery Order Now

Be Proud of Your Fittings

When you can point to the ⚓ mark on your Stern Bearings, Stuffing Boxes, Steering Wheels, Deck Fittings, etc., etc., you can do it *with pride.*

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has been a standard since 1847..

It embodies the skill and knowledge of three generations. It has been known on the Seven Seas for *reliable quality* and *lasting wear.* When your boat has this equipment, you can rely on it, for many years.

TRAWL ROLLERS

Designed for Pacific Coast Use

The Mark of Qualtiy on Marine Hardware

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SEND FOR BOOKLET

"Sea Craft Suggestions and Supplies," our new 112-page book, is full of information for the boat owner. Contains tables and useful hints. Sent for 10c. Write for your copy.

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Established 1847

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is the most durable wood in existence and is specified by naval architects for all surfaces subject to unusual strains and heavy service. For sheathing and guards it has no equal. Our stock of Iron Bark is carefully selected from the finest grown. It is of a uniformly high grade. Safeguard your own interests by getting our quotations.

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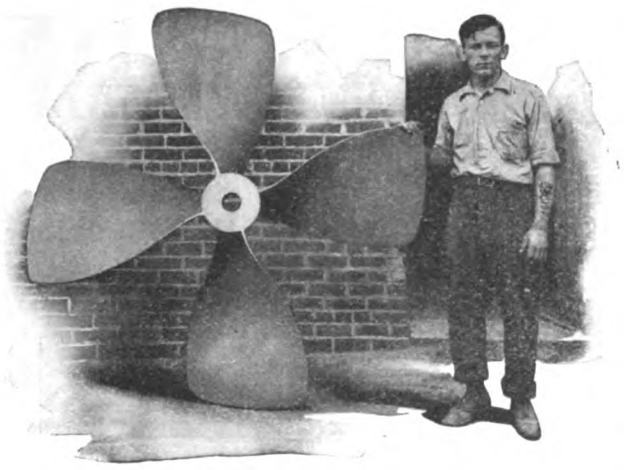

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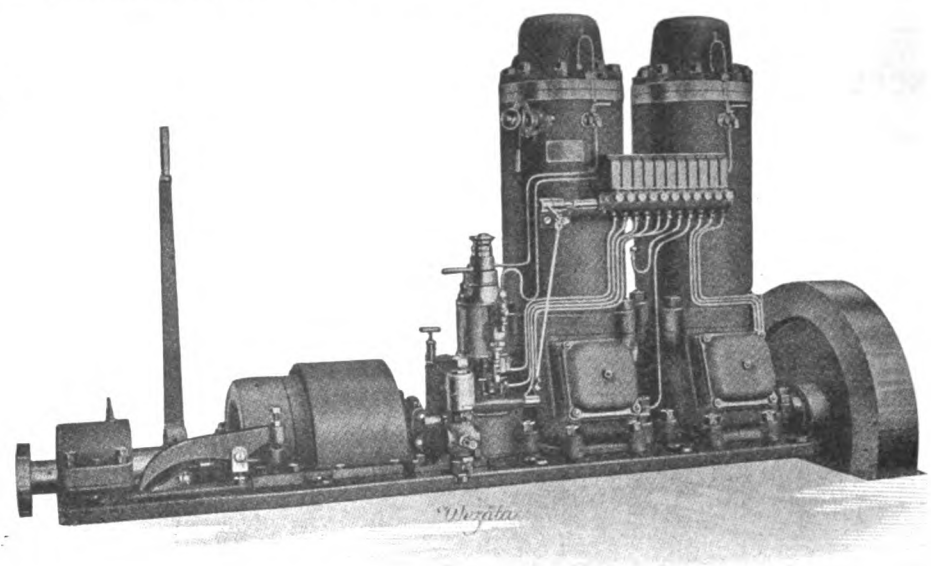

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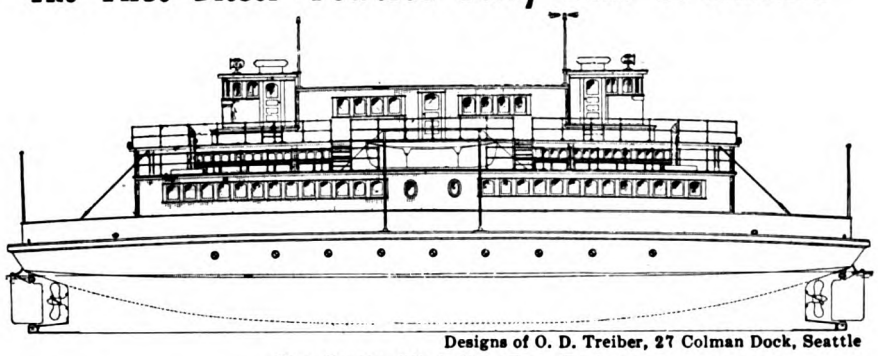
The King County Commissioners unanimously agreed that the

ATLAS TRUE DIESEL

was the best engine of all that were under consideration and accordingly placed orders for a six-cylinder 250 horse power Atlas True Diesel Engine for

The First Diesel-Powered Ferry Boat in America



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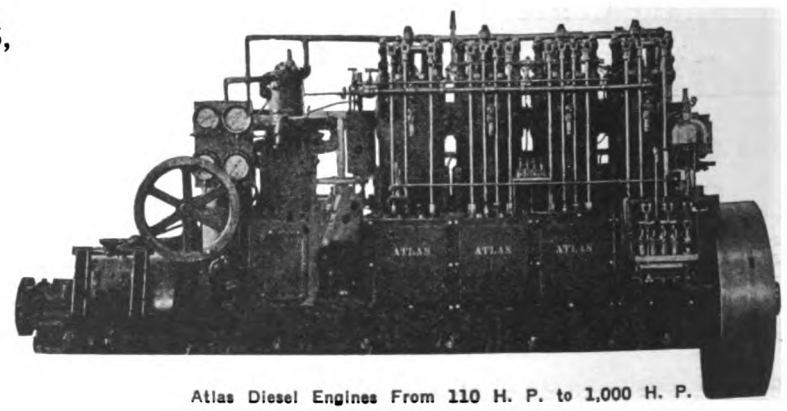

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Stockton, Cal.—Stockton Iron Works.
Sydney, Australia—Atlas Oil Engine Co. 15 Market St.
New Orleans, La.—J. G. Davis, 1324 Music St.
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*Grimes
*Half Moon Bay
Jersey Island
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*Petaluma
Pittsburg Landing
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Rio Vista
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San Pedro
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Portland
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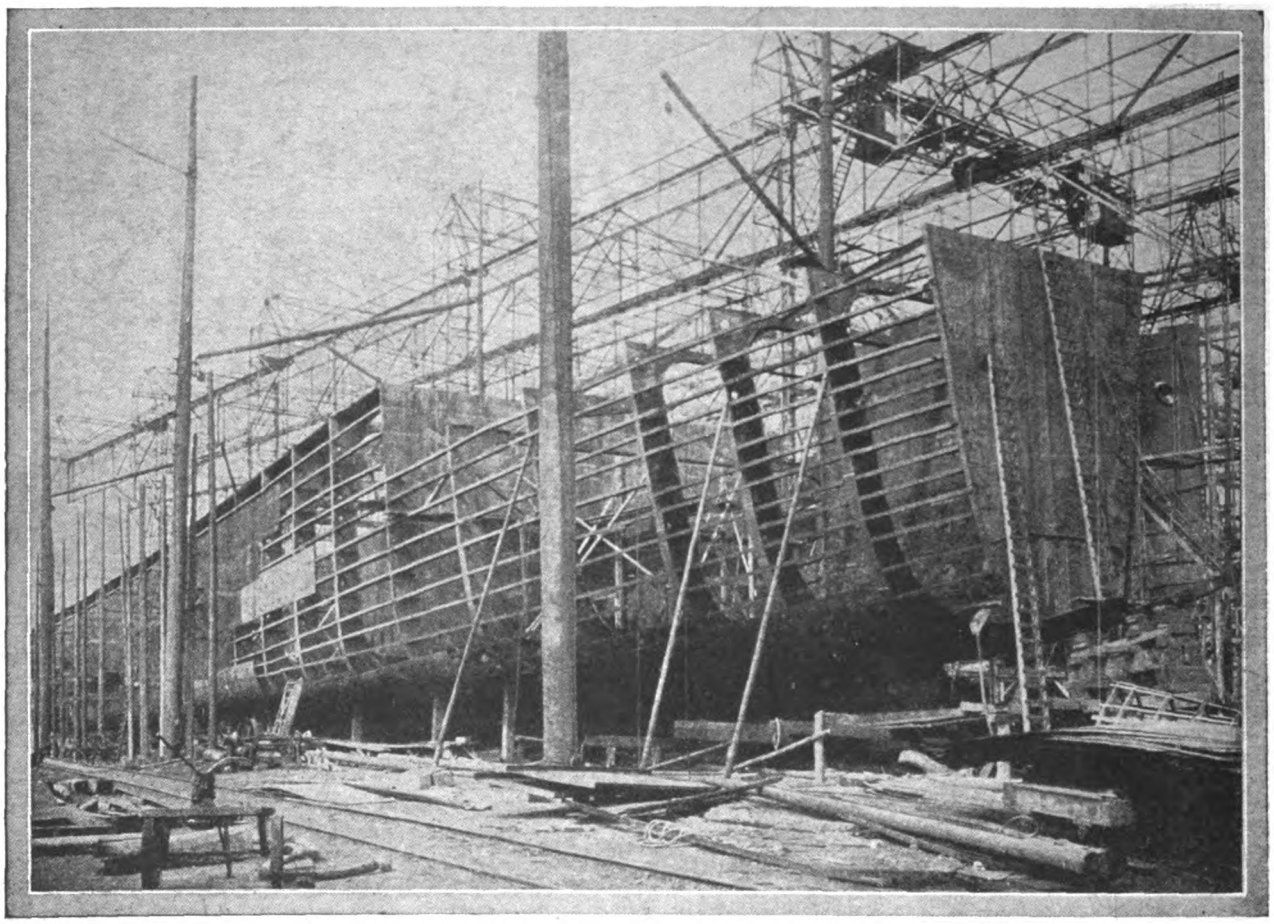

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BOLINDER'S

BOLINDER'S U.S.A. INSTALLATIONS

Name—	Type of Vessel	Dimensions Length	Breadth	Depth	Tons D. W.	Power B. H. P.	Speed Knots
Bldg. B'more (Vacuum Oil Co.)	Tanker	306	47	28	4500	1650	11
"	"	306	47	28	4500	1650	11
"	"	306	47	28	4500	1650	11
"	"	306	47	28	4500	1650	11
Chas. R. McCormick	Schooner	276	48	21	3500	640	8½
"	"	276	48	21	3500	640	8½
"	"	276	48	21	3500	640	8½
Manitowoc Shipb'dg Co	Schooner	261	40-6	23	3000	640	9
"	"	261	40-6	23	3000	640	9
A. O. Andersen & Co., N. Y.	Schooner	246	44	22	2600	640	9
"	"	246	44	22	2600	640	9
The Texas Co.	Schooner	259-5	45-3	22-9	3500	640	8½
E. K. Wood Lumber Co.	Schooner	210	42	15	1800	640	9¼
C. & O. Lumber Co.	Schooner	175	42-6	18		640	
W. R. Grace & Co.	Bark					640	
"	"					640	
A. O. Andersen & Co., N. Y.	Schooner	192	41-3	21	1500	480	8½
Standard Oil Co.	Schooner	261	43	23-6	3200	320	7
"	"	261	43	23-6	3200	320	7
"	"	261	43	23-6	3200	320	7
"	"	261	43	23-6	3200	320	7
"	"	261	43	23-6	3200	320	7
"	"	261	43	23-6	3200	320	7
Standard Transp. Co.	Tanker	197-3	35	14-4	1600	320	7½
Pendleton Bros.	Schooner	255	43	22-6	3000	320	
"	"					320	
Andrew Mahoney	Schooner	225	43	20-3	2700	320	6¾
"	"	225	43	20-3	2700	320	6¾
"	"	225	43	20-3	2700	320	6¾
Taylor Engineering Co.	Schooner	225	44	23	2250	320	7
"	"	225	44	23	2250	320	7
"	"	225	44	23	2250	320	7
"	"	225	44	23	2250	320	7
"	"	225	44	23	2250	320	7
"	"	225	44	23	2250	320	7
"	"	225	44	23	2250	320	7
"	"	225	44	23	2250	320	7
Matson Navigation Co	Schooner	212	34	21-6	1700	320	8
R. P. Rithett	Bark	206	38	19	1850	320	7½
Shell Oil Co.	Tanker	211	34	19-6	1800	320	7¼
W. R. Grace & Co.	Schooner	170	38-8	9-8	800	320	8½
W. & S. Job & Co.	Schooner	210	40	19	2100	320	7½
J. B. King & Co.	Barge	220-7	35	21	1900	320	7
"	"	220-7	35	21	1900	320	7
"	"	220-7	35	21	1900	320	7
"	"	220-7	35	21	1900	320	7
"Carmela"	Bark	262	37-6	22	2200	320	7
Chas. R. McCormick	Schooner	230	44	19		320	
R. Lawrence Smith, N. Y.	Schooner	236	40	19	2000	320	7
Pacific Commercial Co.						320	
Honolulu Iron Works		124	25	9		240	
W. & S. Job & Co.	Schooner	153-8	28-3	12-4	550	160	7
Borden & Lane	Schooner	138	32	13	600	160	7¾
"Marie L. Hanlon"	Tug	71-5	17-8	7-5		160	9¾
"A. I. West"	Schooner	161	40	11-6	1050	160	6
"Eclipse"	Schooner	104	27	14	500	160	7¾
"Pilar"	Schooner	148	32		850	160	6½
"Gracie S."	Pilot	83	24-7	10-2		120	9
W. & S. Job & Co.	Schooner	122-5	24	13	400	100	6½
"Gilbert Islands"	Schooner	125	31	11-9	650	100	6
"Chiriqui"	Schooner	110	24	8	200	100	6½
"Ocmulgee"	Riverboat	120	24	5	90	100	8¾
F. A. Scharberg	Riverboat	97	19-6	8		100	

Total B. H. P. Marine Engines.....27.140

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THE DIESEL ENGINE IN PRACTICE, by J. E. Megson and H. S. Jones, 1916. Price $2.00 net. 131 pages in handy size containing illustrations and drawings, covering oil engines and modern Diesels, written by practical men in a clearly understandable manner.

MARINE OIL ENGINES, by W. D. Martin, M. I. E. S., Technical College, Dundee, Scotland, 1915. Price 60c net. An elementary work which covers the smaller types of internal combustion engines of English manufacture, together with semi-Diesels and Diesels of foreign make.

GAS POWER, by C. T. Hirshfeld, M. M. E., Cornell University Professor; T. C. Ulbricht, M. M. E., formerly Cornell University Professor, 1914. Price $1.25 net. A simplified treatise on gas, gasoline and oil engines of the stationary type including chapter on gas producers.

THE PRACTICAL GAS AND OIL ENGINE HAND BOOK, (1913), by L. Elliott Brookes. Price ———. Contains useful information on the care, maintenance and repair of gas and oil engines.

GAS, GASOLINE AND OIL ENGINES, by Gardner E. Hiscox, M. E. Revised, enlarged and modernized by Victor Page, M. E., 1915. Price $2.50 net. A complete work of 631 pages with 435 engravings covering stationary, marine, motor vehicles and aerial, including Producer Gas.

OIL FUEL, by Edward Butler, M. I. M. E., 1914. Price $1.80 net. Third edition enlarged, 318 pages, 150 illustrations. A scientific text book on the supply, composition and application of fuel oil.

LAND AND MARINE DIESEL ENGINES, by Giorgio Supino, 1915. Price $3.00 net. Exhaustive treatise with data and plans covering modern Diesels, including rules governing classification societies for the classification of Diesel engines. 19 plates, 380 illustrations.

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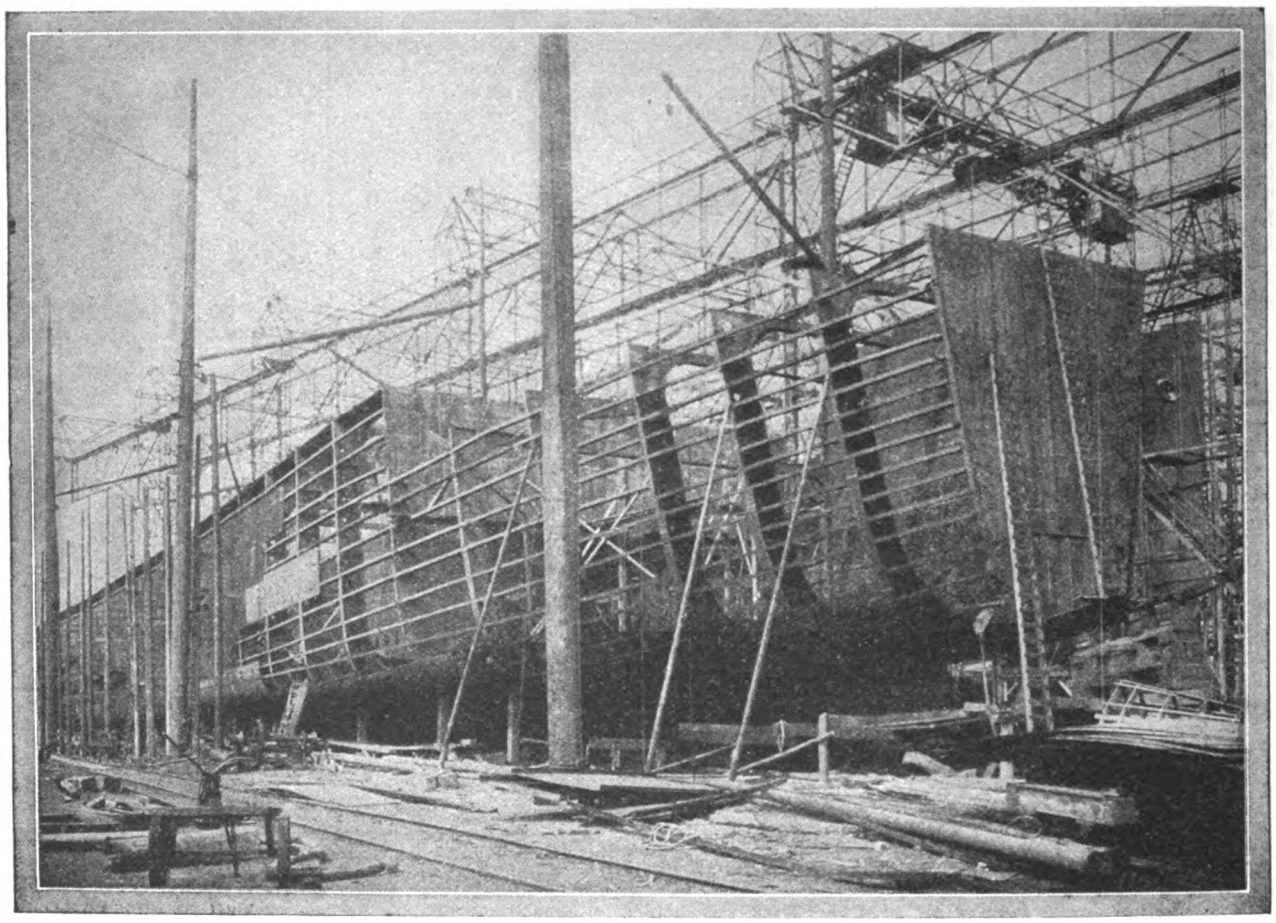
Suitable for All Types of Vessels

Specially Advantageous for Oil Steamers



Increased Strength. Increased Capacity for Bale Goods. Increased D. W. Carrying Capacity. Improved Ventilation. Reduced Cost of Maintenance. Reduced Vibration. 500 vessels representing about 3,650,000 tons dead weight carrying capacity. 205 Bulk Oil Carriers representing about 1,886,000 tons dead weight carrying capacity.

FOR PARTICULARS APPLY TO

Telephone— 1064 Avenue

J. W. ISHERWOOD

Telegraphic Address— "Ishercon"

4, LLOYD'S AVENUE, LONDON, E. C.

or to S. C. CHAMBERS & CO., 3 KING STREET, LIVERPOOL

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The safety, as well as the livelihood, of the deep-sea fisherman, depends upon the reliability of his engine. Last season, Union Engines outnumbered by far all other makes on the great fishing grounds off Southern California. These sales were not made by cut prices, but in spite of them; a case of quality vs. price.

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Engine is in Seattle and can be seen on application to

NEW LONDON SHIP AND ENGINE CO.

1907 L. C. SMITH BLDG.
SEATTLE, WASH.

WORKS,
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WERKSPOOR

AMSTERDAM **HOLLAND**

Name of Ships—	Owners—	Deadweight Capacity Tons.	Horse-power.
San Antonio	A. Hammerstein	500	215
Cornelis	J. Van Rompu	600	265
*Vulcanus	Anglo-Saxon Pet. Co.	1,000	500
Sembilan	Royal Packet Co.	300	265
Juno	Anglo-Saxon Pet. Co.	2,675	1,360
Emanuel Nobel	Royal Shell Interests	6,500	2,750
Loudon	Royal Packet Co.	1,750	1,360
Artemis	Anglo-Saxon Pet. Co.	5,050	2,300
Ares	Anglo-Saxon Pet. Co.	5,050	2,300
Selene	Anglo-Saxon Pet. Co.	5,050	2,300
Hermes	Anglo-Saxon Pet. Co.	5,050	2,300
Erbruz	Royal Shell Interests	6,500	2,750
Jules Henry	A. Vimont	2,000	1,360
Poseidon	Anglo-Saxon Pet. Co.	800	450
Myer (Mijer)	Royal Packet Co.	1,750	1,360
Siberg	Royal Packet Co.	1,750	1,360
Utrecht	Anglo-Saxon Pet. Co.	1,500	800
Lara	Anglo-Saxon Pet. Co.	875	650
Bengkalis	Royal Packet Co.	900	650
Boelongan	Royal Packet Co.	900	650
Sebastian	Lane & McAndrew	4,500	2,300
No. 17	Dutch Colonies Gov't	1,000	900
No. 22	Dutch Colonies Gov't	1,000	900
Hestia	Anglo-Saxon Petroleum Co.	875	650

ALL THE ABOVE SHIPS ARE PROPELLED BY DIESEL-TYPE CRUDE OIL ENGINES BUILT AT THE WERKSPOOR WORKS, AMSTERDAM, HOLLAND; THUS WERKSPOOR LEADS IN EXPERIENCE

*First full-powered ocean-going Diesel-driven ship.—Built in 1910

Pacific Coast Constructional License, or Licenses, Available

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THE NEW YORK SHIPBUILDING COMPANY

and by the

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DIESEL TYPE ENGINES

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CONSISTENT Motors

Unequaled for power, speed, economy and consistent performance. Write for catalog of different sizes and types in four, six and eight cylinders.

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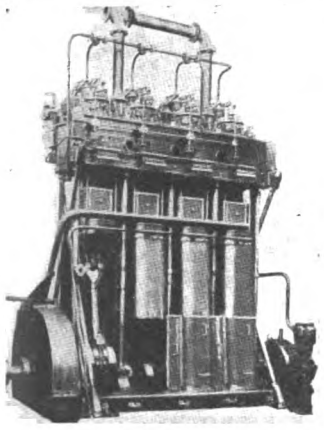

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Strictly a Marine Engine for Marine Purposes

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Office Foot of McKenna Avenue
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A Modern Plant

Constructing Wooden Ships

From Douglas Fir

THE BEST IN THE WORLD

Directorate Well Known Portlanders

Experienced Management

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Combining

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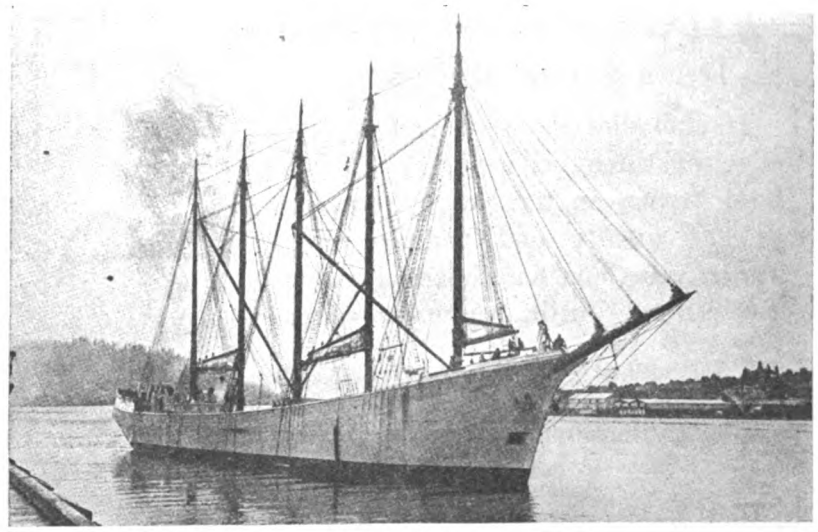

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Characterized by an eminent European Diesel Engine Authority after careful inspection as

"The Simplified Diesel"

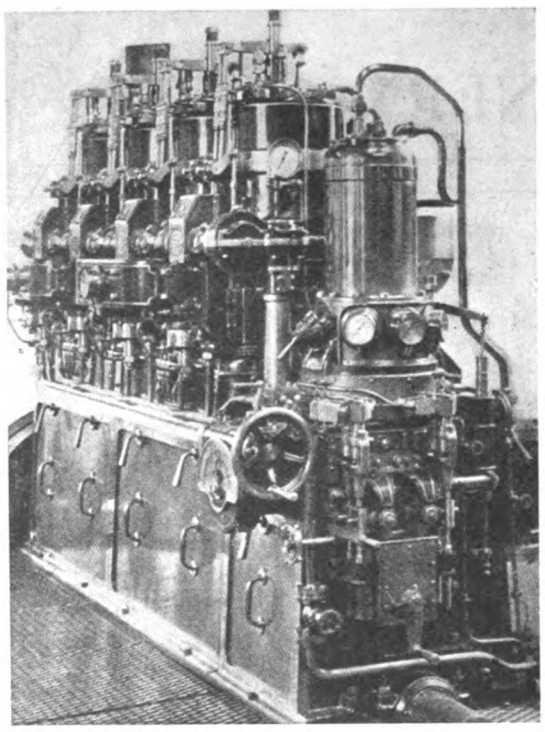
Built in Sizes 120 to 2000 I. H. P.

All Trouble-Making Valves Have Been Eliminated

Entire Control Centralized in One Hand Wheel

From Stone Cold to Full Power In 10 Seconds

Directly Reversible "Full Ahead" to "Full Astern" in 5 Seconds.



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When you can point to the ⚓ mark on your Stern Bearings, Stuffing Boxes, Steering Wheels, Deck Fittings, etc., etc., you can do it *with pride.*

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Equipped with a 10 b. h. p. 1-cylinder 7x7½ Model M. C., Speed 9 miles

The Ideal Commercial Engine for Commercial Vessels

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Two Years Successful Running on the Pacific Coast

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Good Rope for Every Need

Out on the fishing grounds, dory rigging and trawl lines must stand their share of the strain and contribute their share of service, same as the biggest anchor cables.

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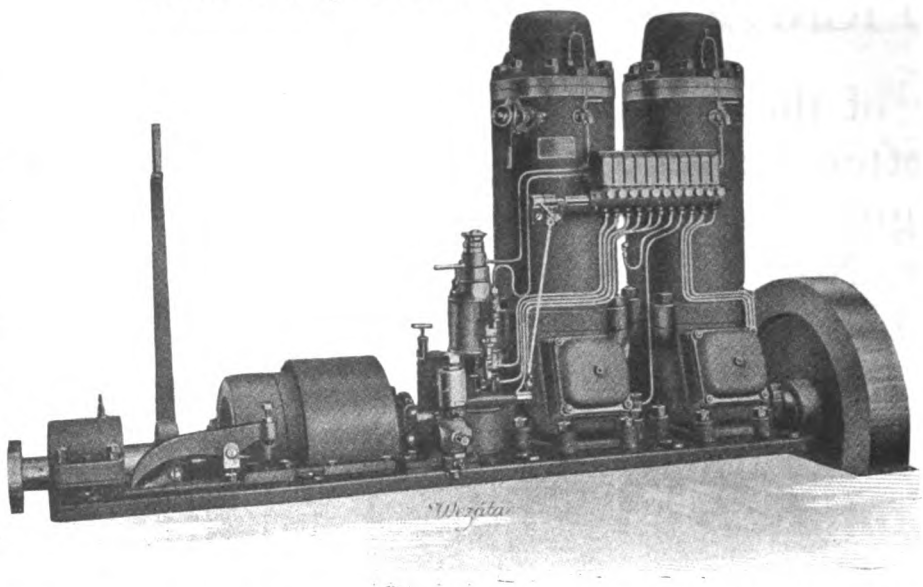
Over 11,000 horse power sold on Pacific Coast.

31 auxiliary powered schooners now building to be equipped with these engines.



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Fish Brand goods are made of the best materials. Sized big for comfort, strong at every point. In fact, made for men who give waterproof garments the very hardest wear.

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It has 15 to 20% greater efficiency owing to valves in the head.

Perfect control on slow speed.

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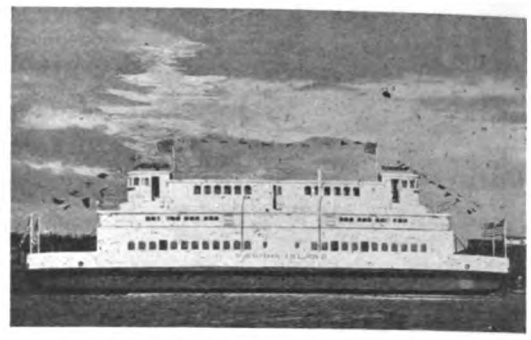
The First Full Diesel-Powered Ferry Boat In America



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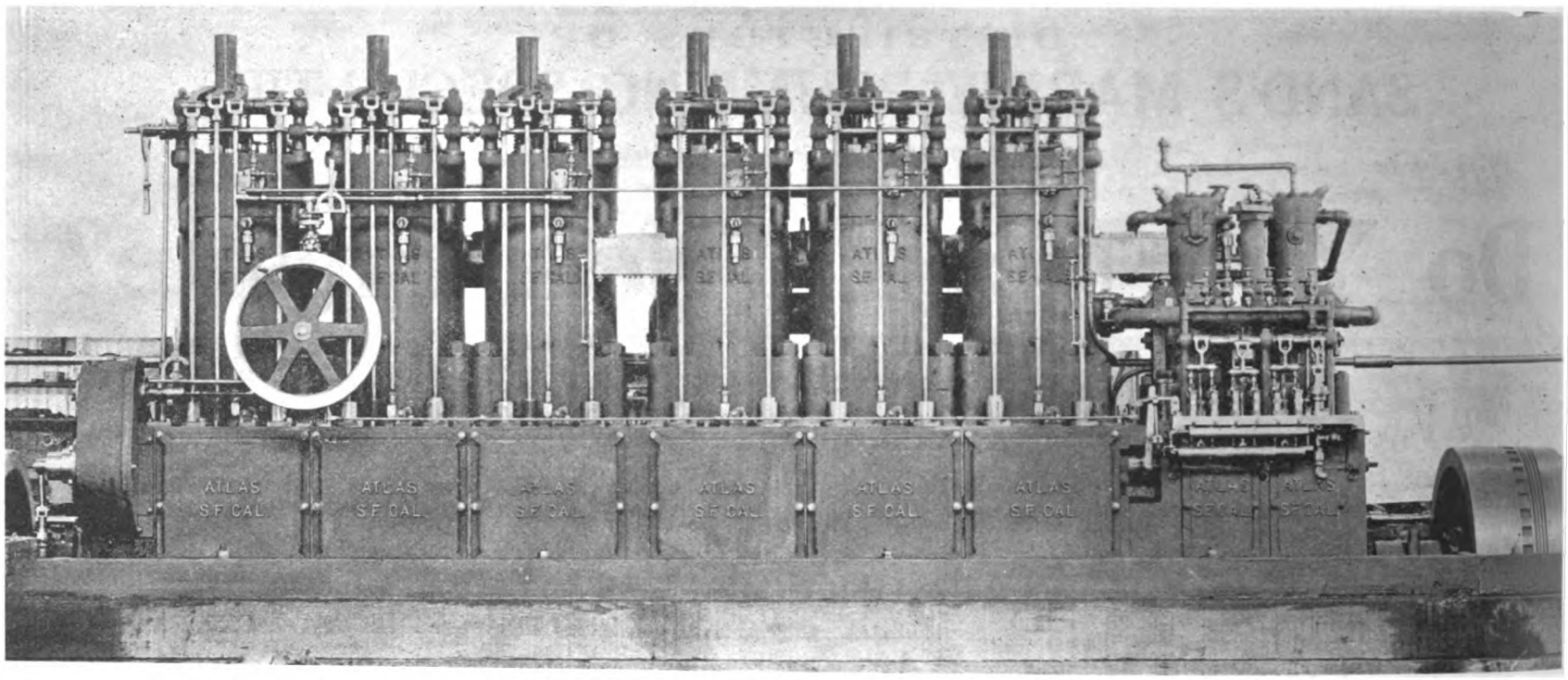

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A Triumph for Pacific Coast Manufacturers

Diesel engines built in sizes from 110 b. h. p. up

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South Bend
Tacoma
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*Half Moon Bay
Jersey Island
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Long Beach (Barge)
Martinez
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Napa
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*Petaluma
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*Princeton
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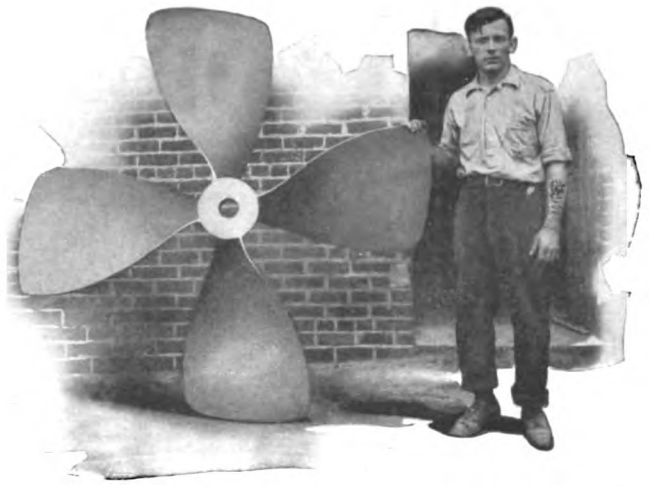

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Different Styles

2000 Patterns

A Wheel
for any type of boat

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is positively the best for Commercial Boats. Made of the best manganese bronze especially for that work, it has the power and strength and is the best wheel made for backing. We can supply either three or four blades, 24 inches in diameter to seven feet. Any pitch.

An interesting propeller treatise "PROPELLERS IN A NUTSHELL," sent free upon request.

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Comfortable

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Established 1830 Stamford, Conn.

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